

FIG. 1

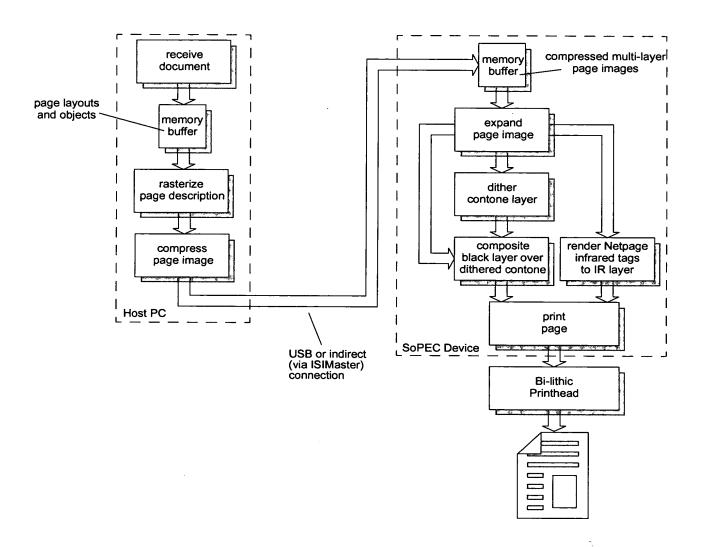


FIG. 2

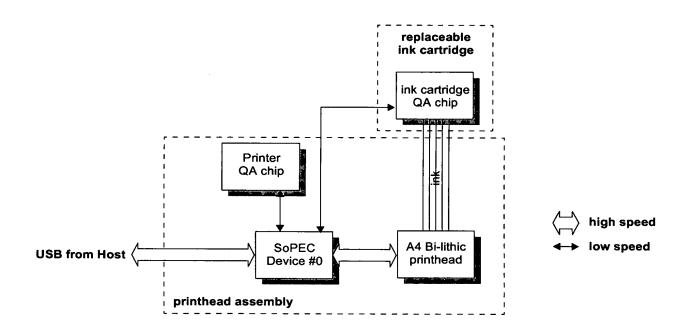
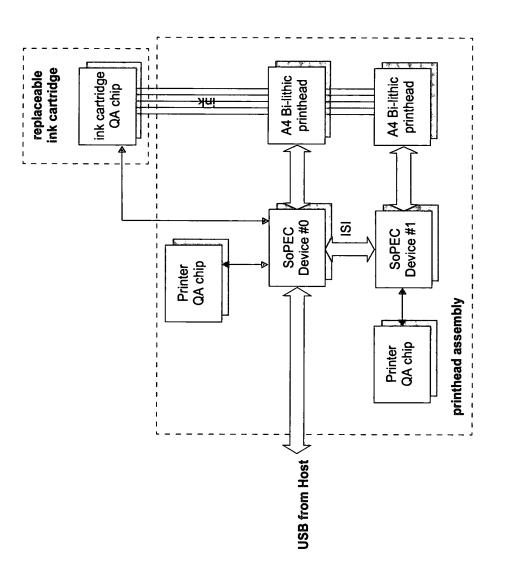
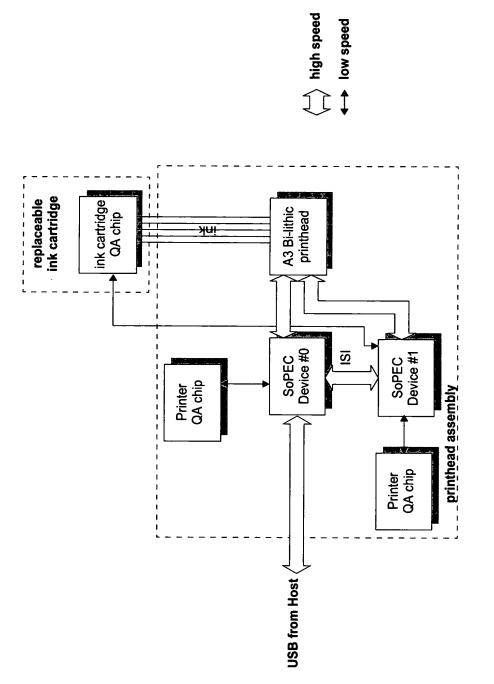


FIG. 3

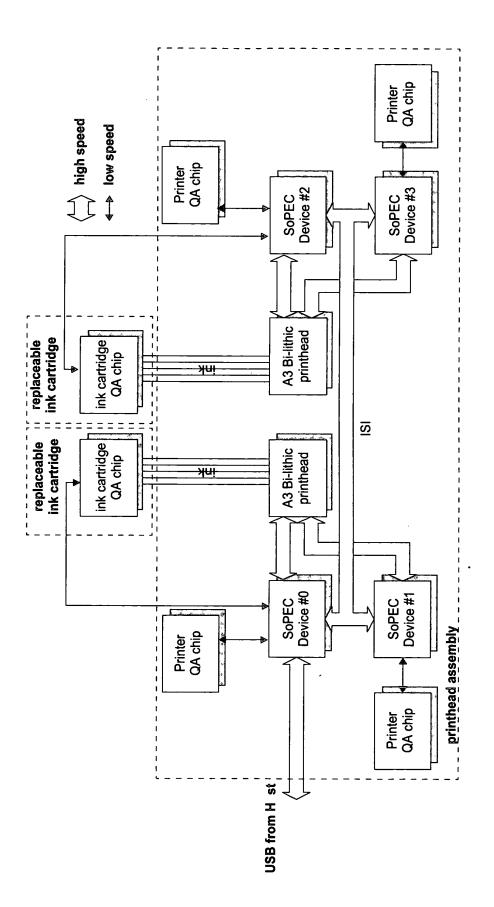
high speed



F1G. 4



F1G. 5



F1G. 6

USB from Host (

Sopec Boundary Sopec Boundary Brinthead assembly)

replaceable ink cartridge A cartridge A cartridge A cartridge A cartridge Boundary Brinthead Boundary Brinthead assembly

high speed

d→ low speed

F1G. 7

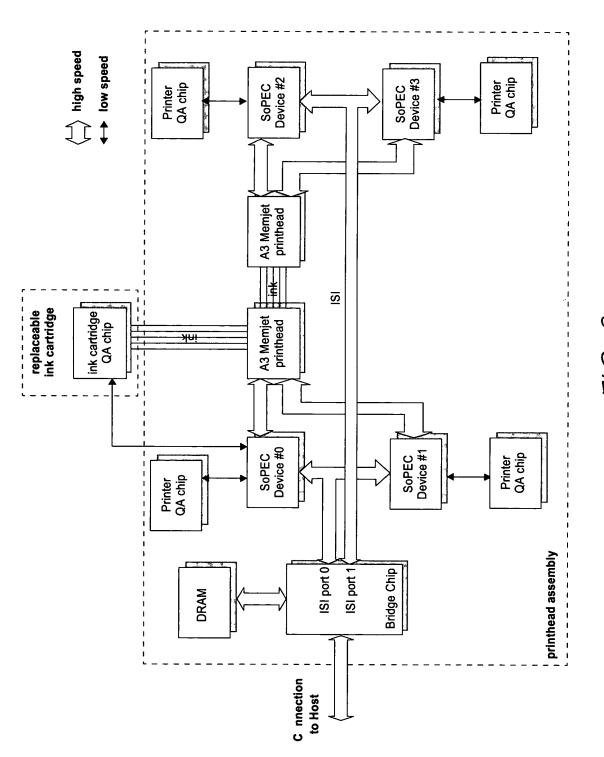
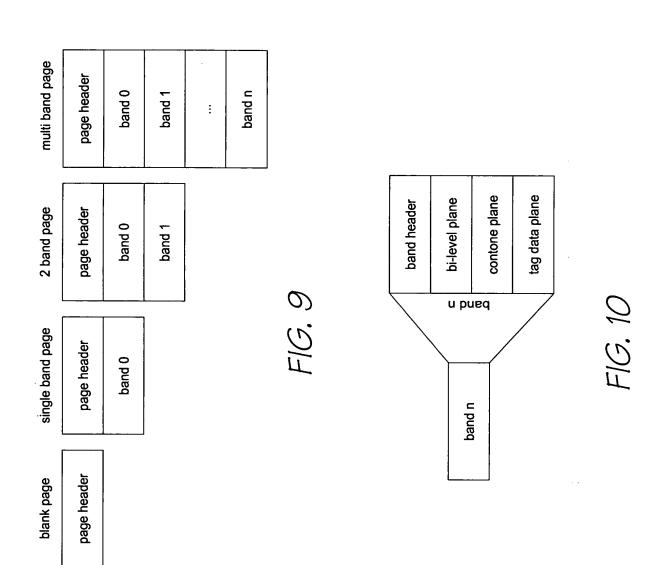
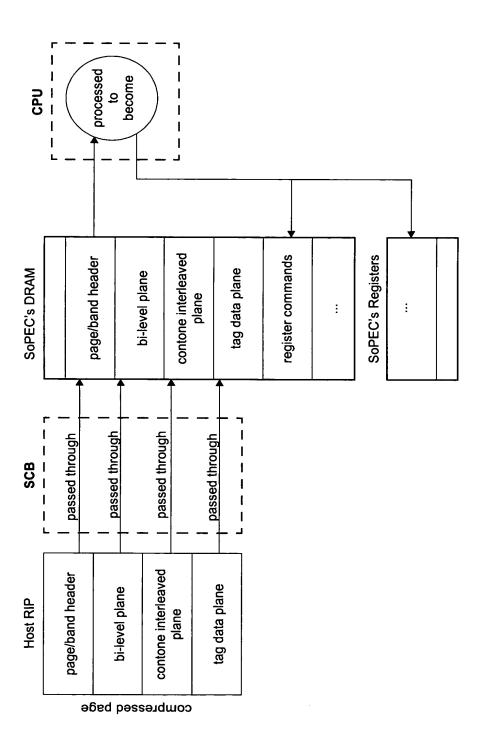


FIG. 8





F16. 11

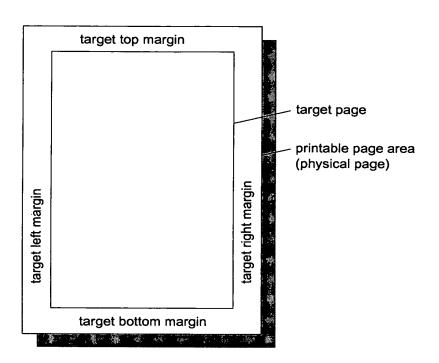


FIG. 12

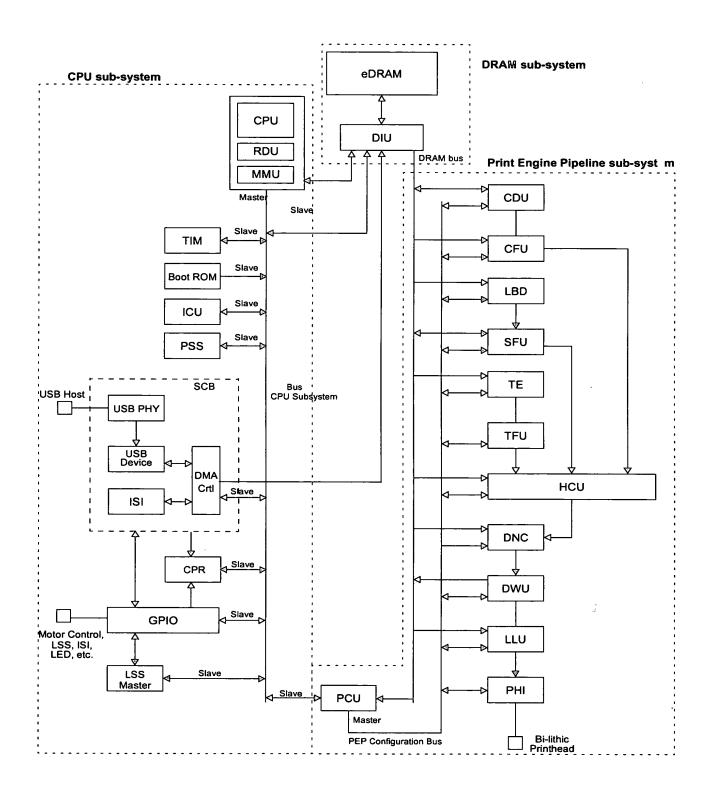


FIG. 13

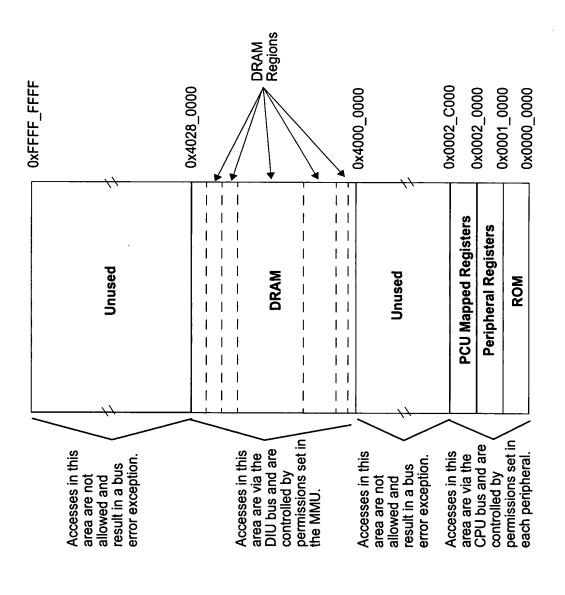


FIG. 14

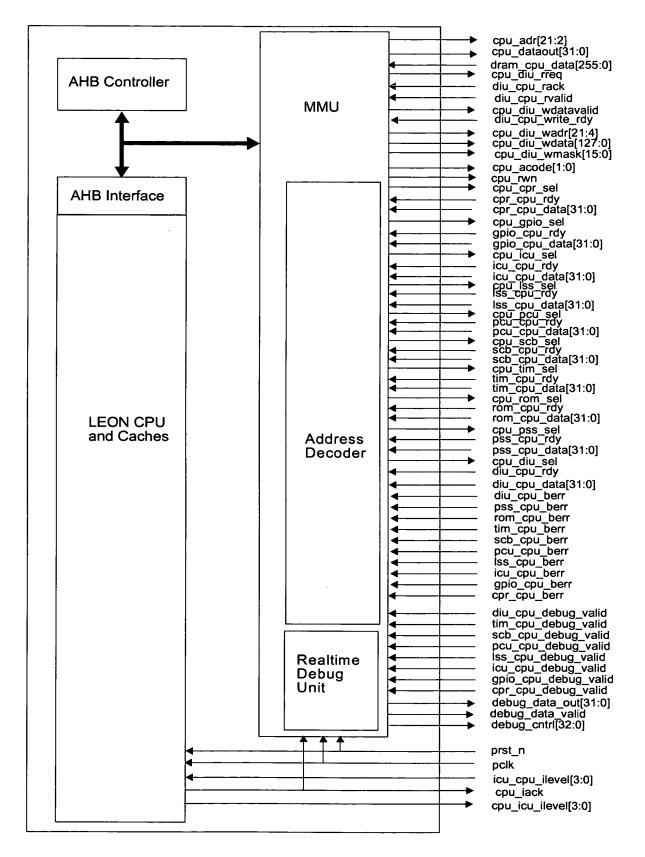


FIG. 15

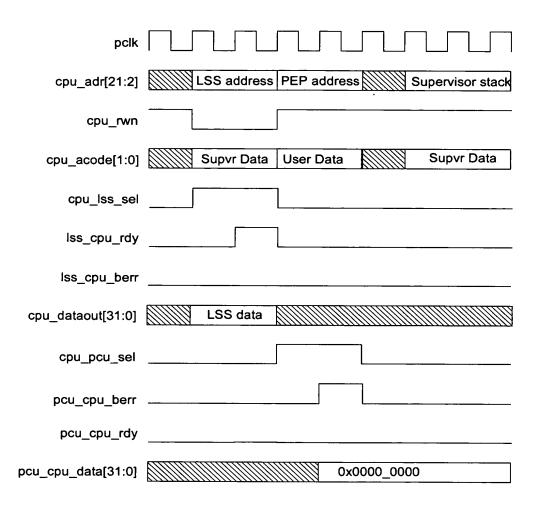


FIG. 16

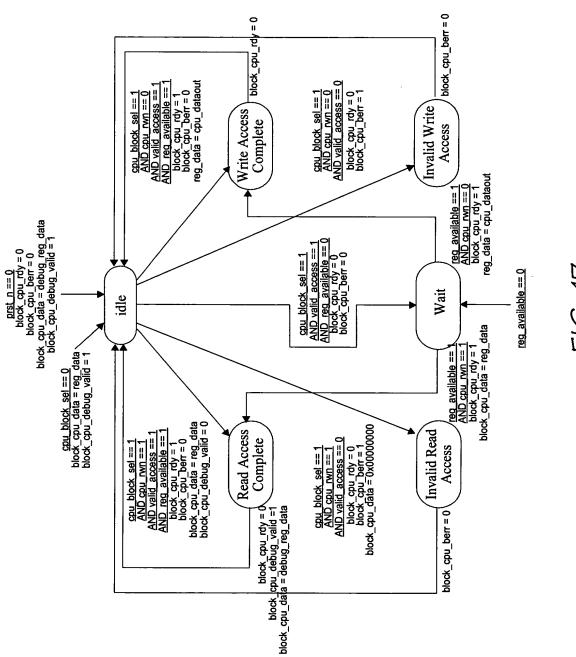


FIG. 17

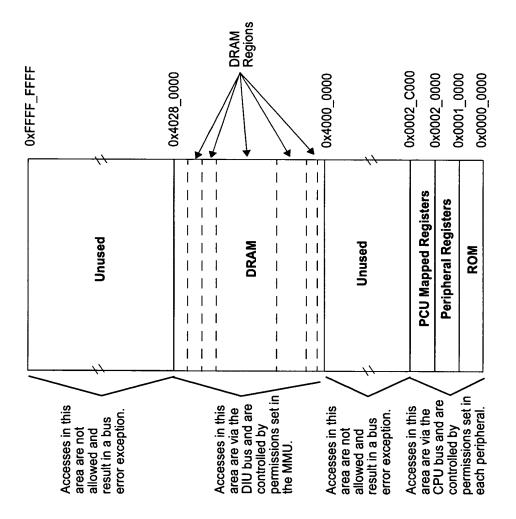


FIG. 18

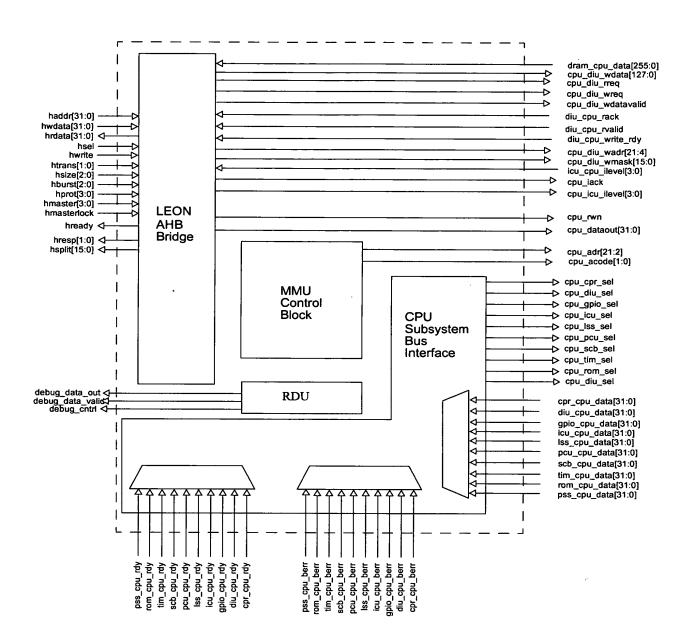
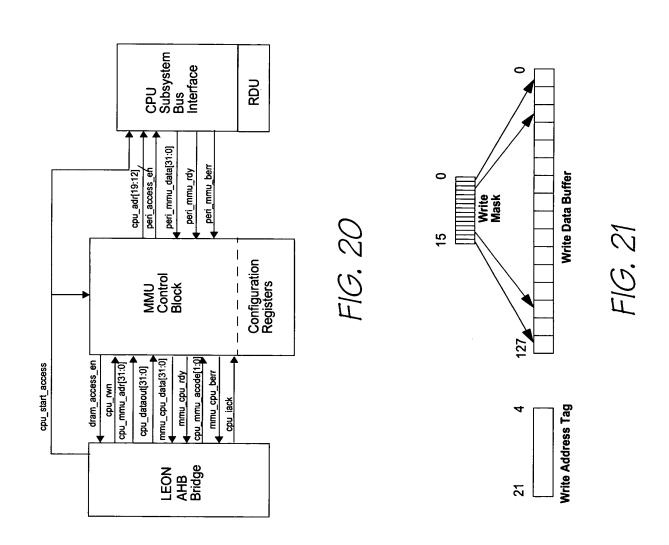


FIG. 19



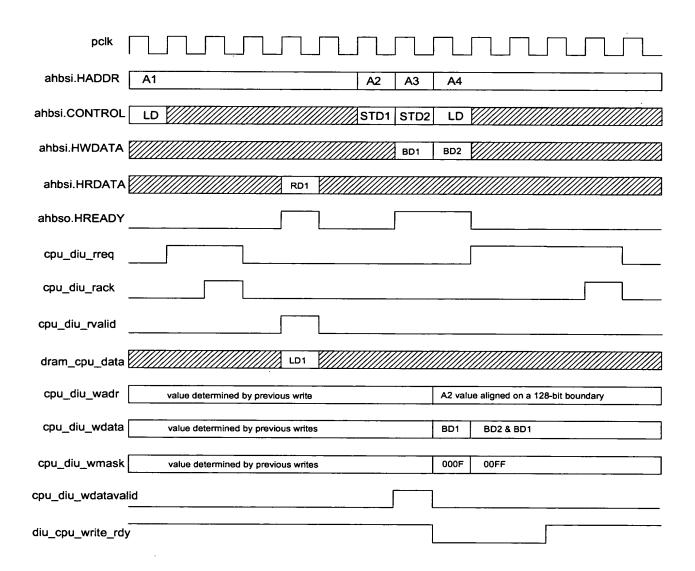


FIG. 22

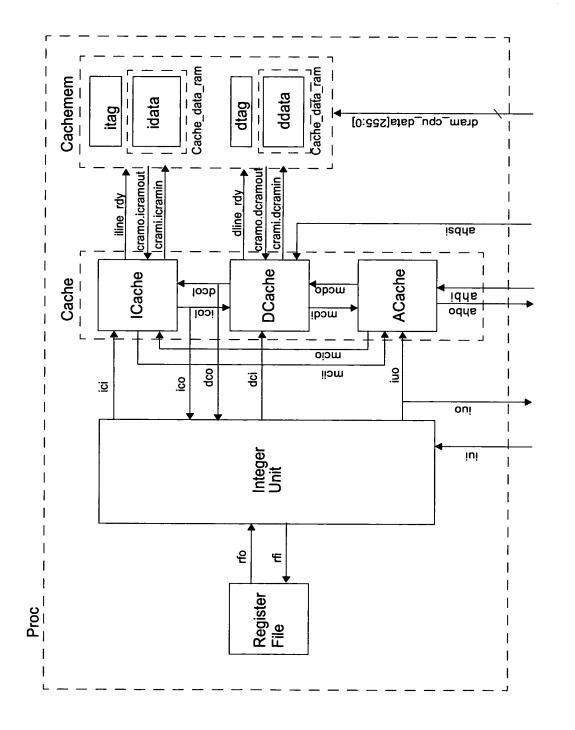
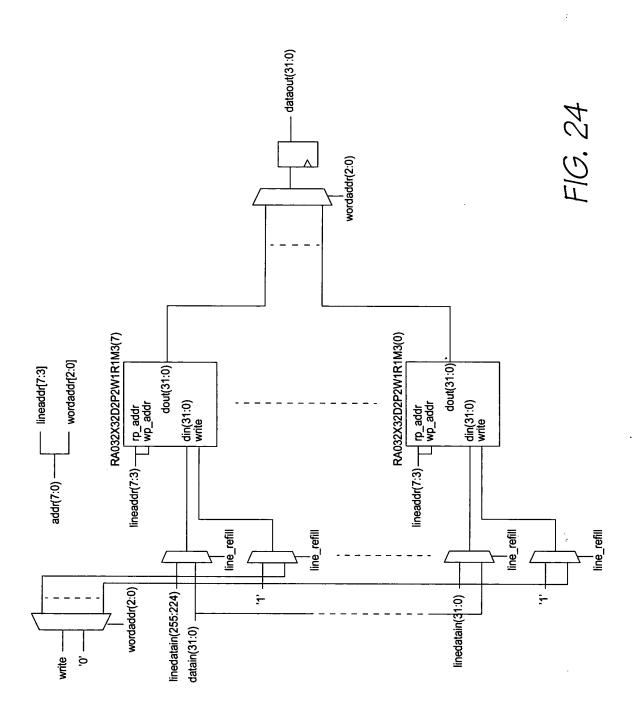
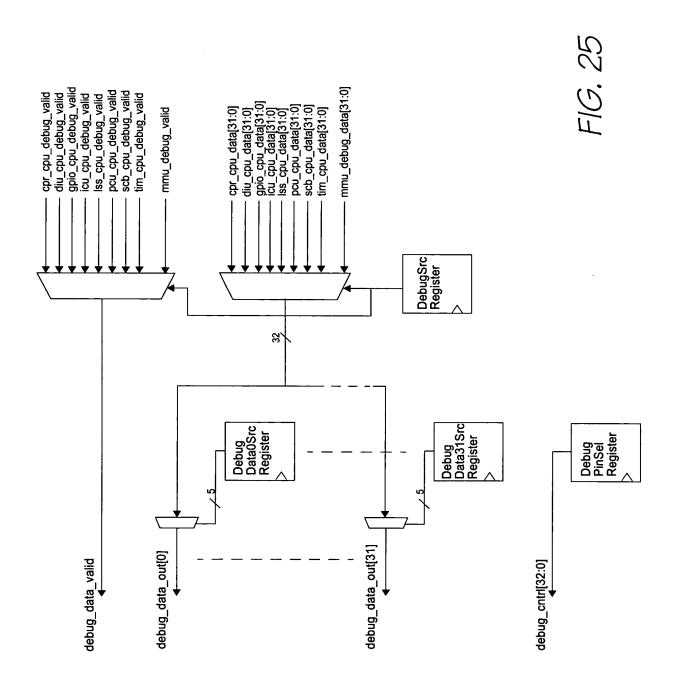


FIG. 23





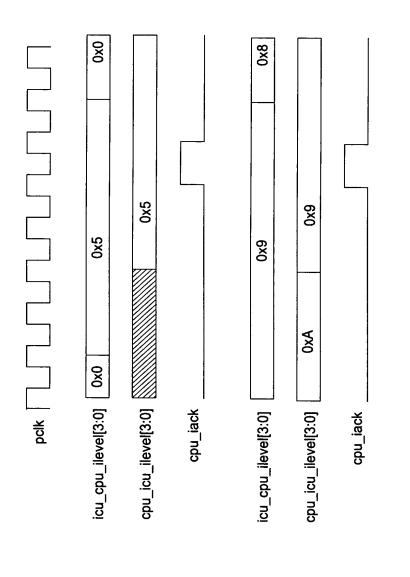


FIG. 26

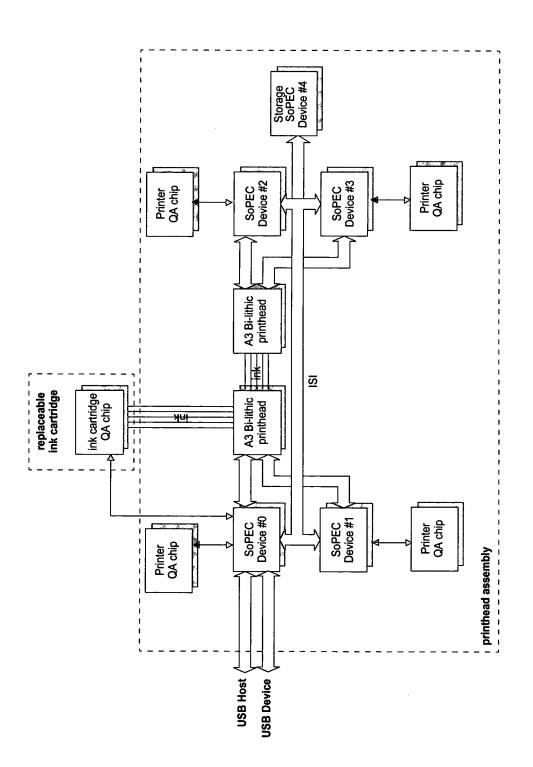


FIG. 27

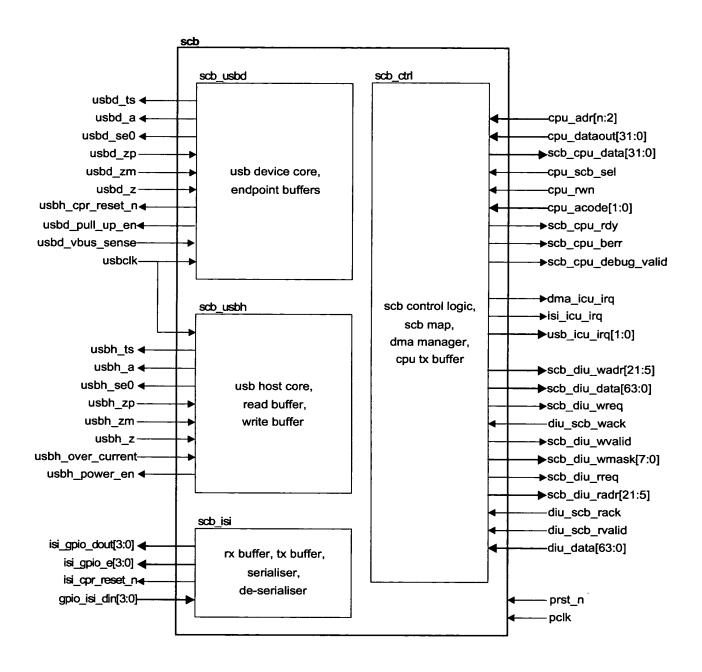


FIG. 28

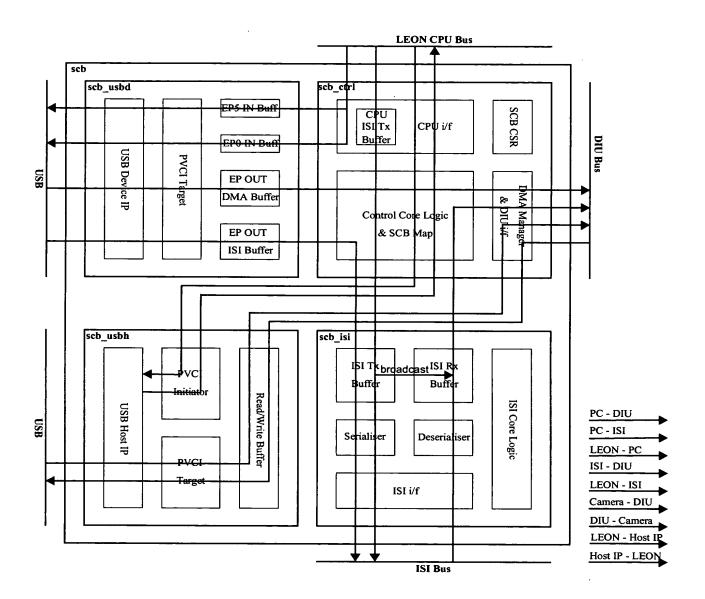


FIG. 29

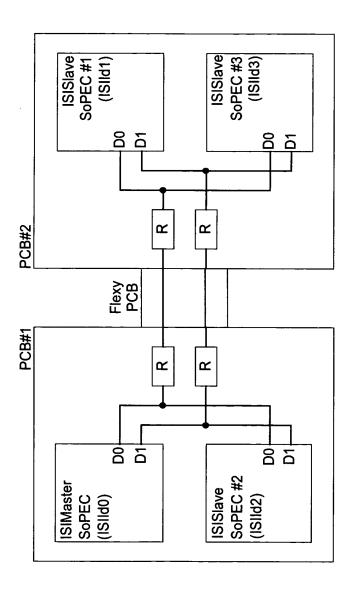


FIG. 30

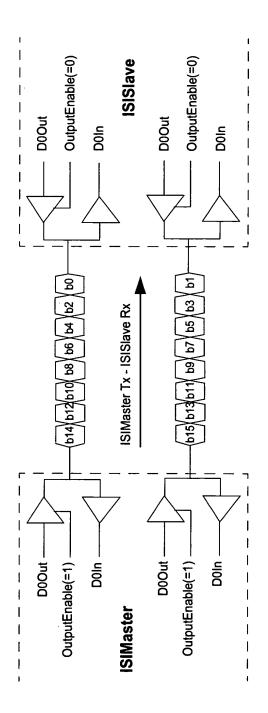
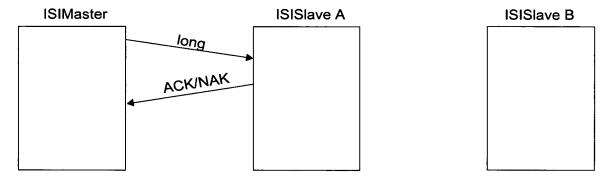
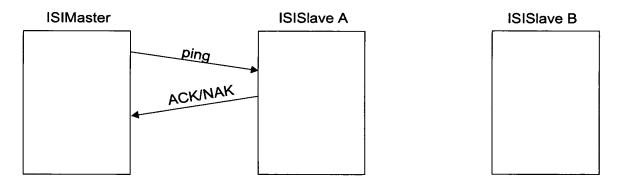


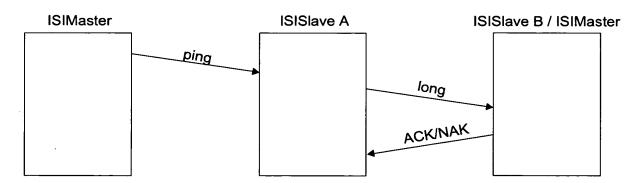
FIG. 31



Transaction 1: Long packet to an addressed ISISlave



Transaction 2: Ping packet to an addressed ISISlave. ISISlave has nothing to send



Transaction 3: Ping packet to an addressed ISISlave. ISISlaveA responds with a long packet to ISISlaveB (or the ISIMaster) and ISISlaveB (or the ISIMaster) responds with an ACK or NAK.

FIG. 32

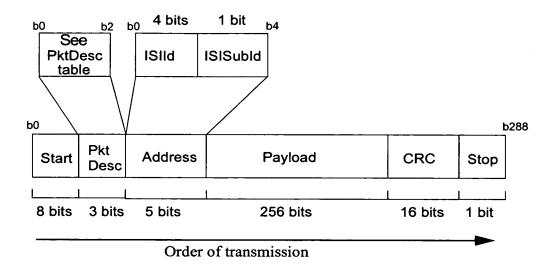


FIG. 33

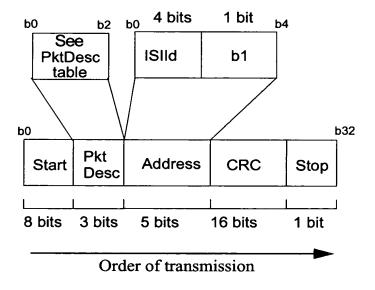


FIG. 34

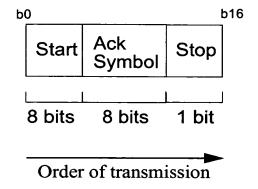


FIG. 35

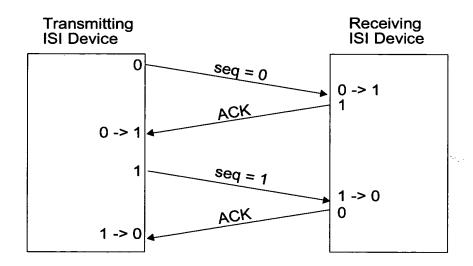


FIG. 36

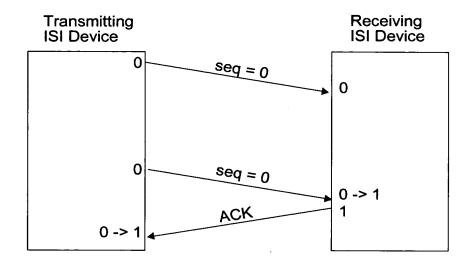


FIG. 37

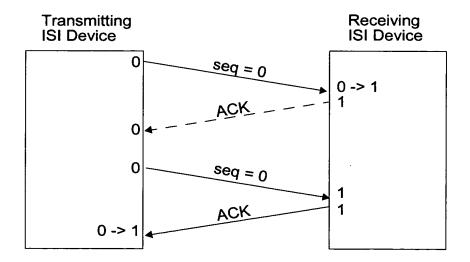


FIG. 38

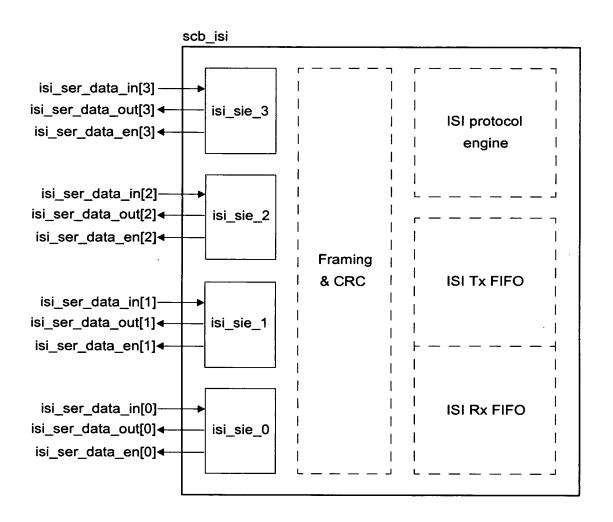


FIG. 39

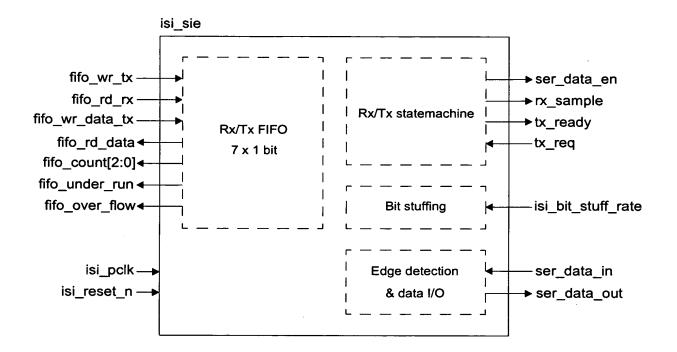


FIG. 40

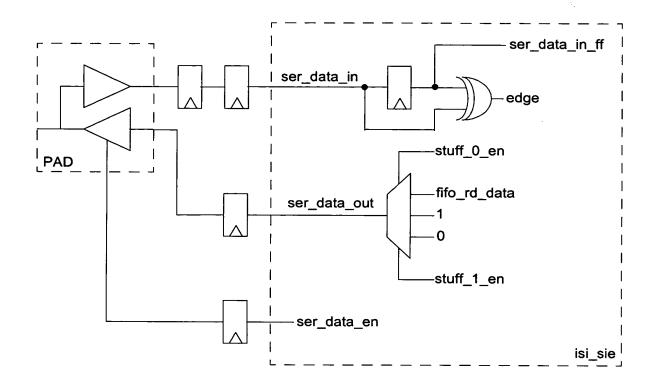


FIG. 41

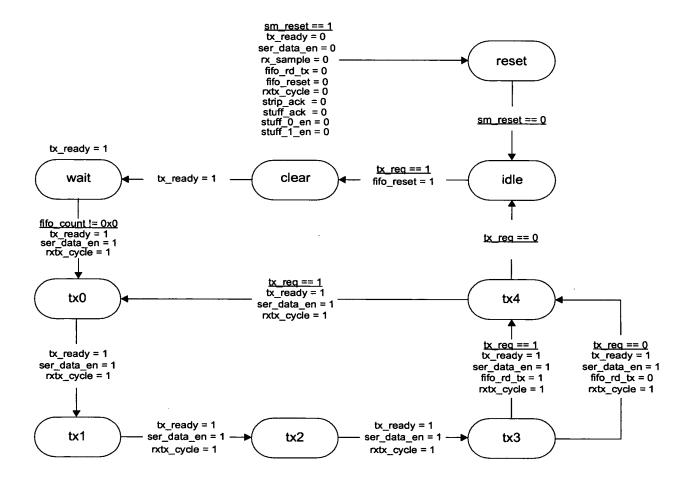


FIG. 42

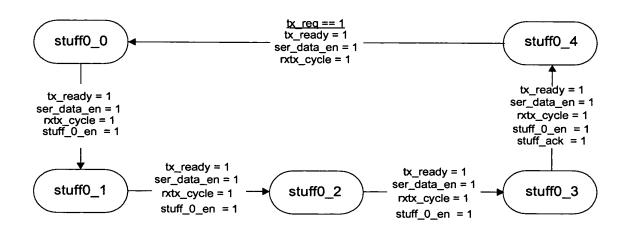


FIG. 43

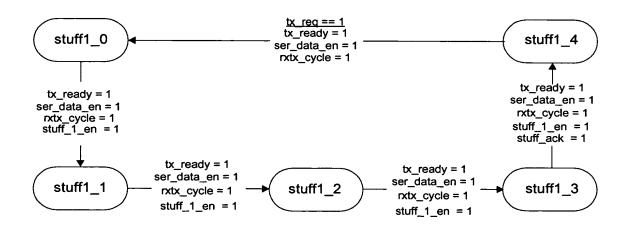


FIG. 44

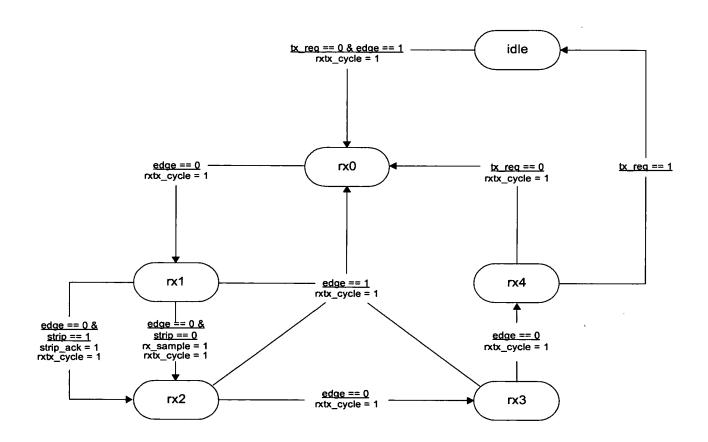


FIG. 45

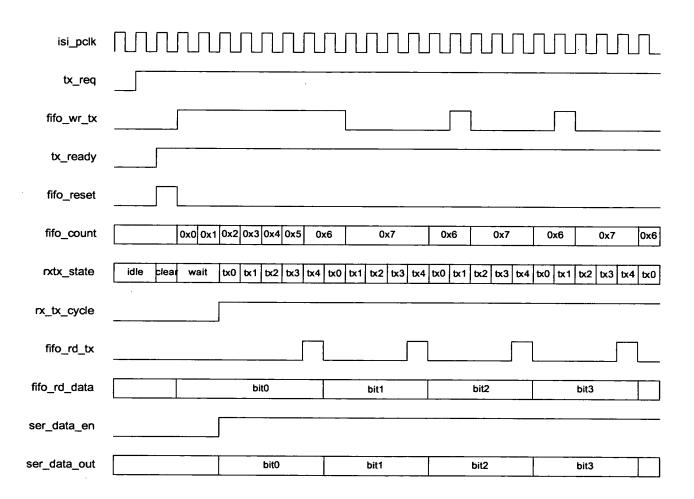


FIG. 46

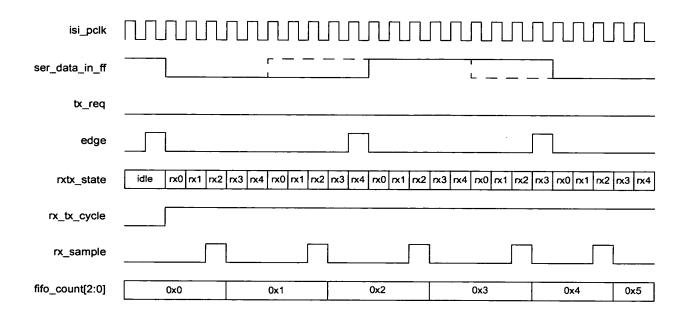


FIG. 47

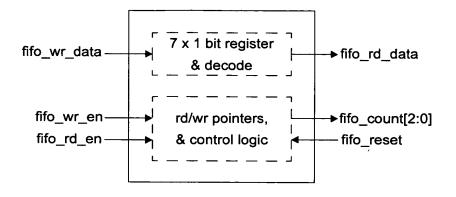


FIG. 48

FIG. 49

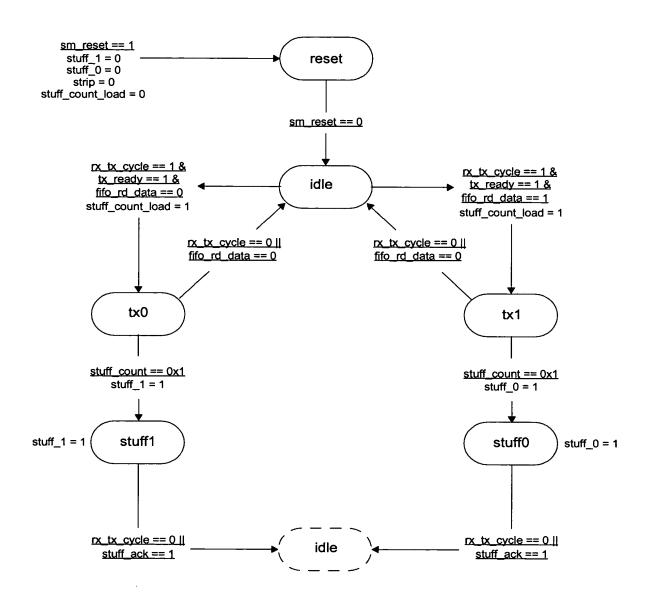


FIG. 50

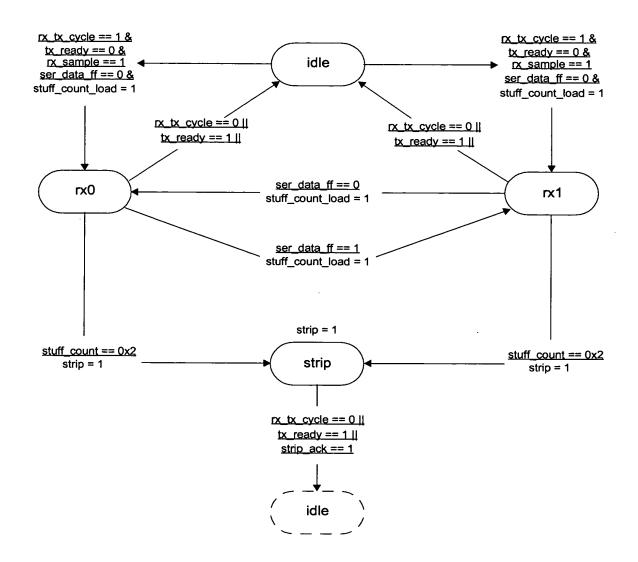


FIG. 51

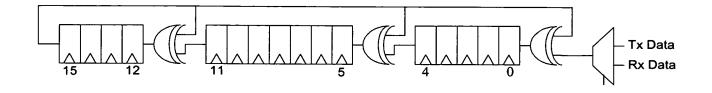


FIG. 52

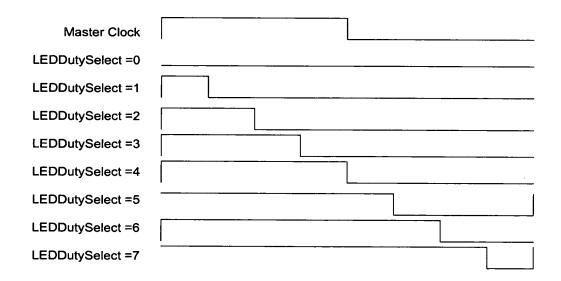


FIG. 54

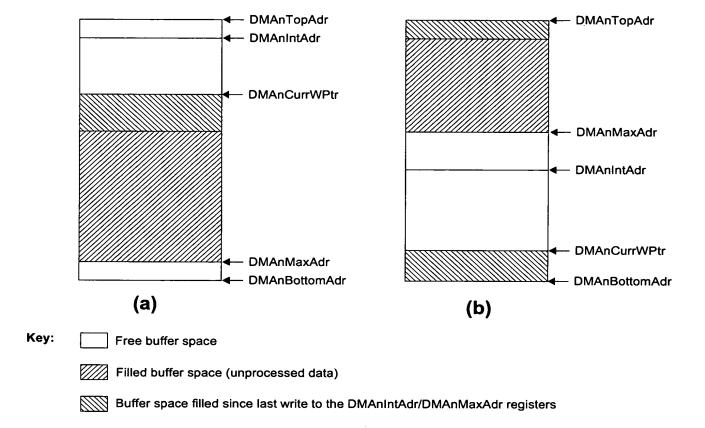


FIG. 53

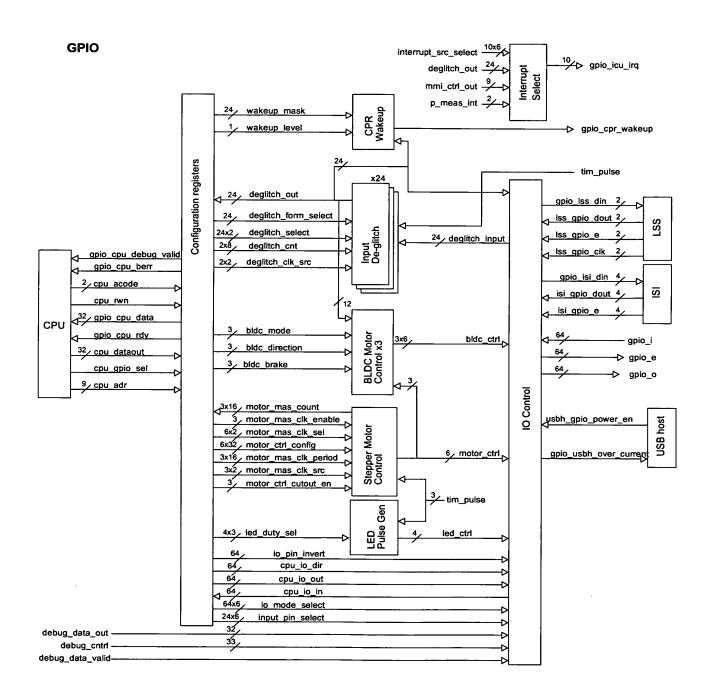
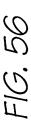
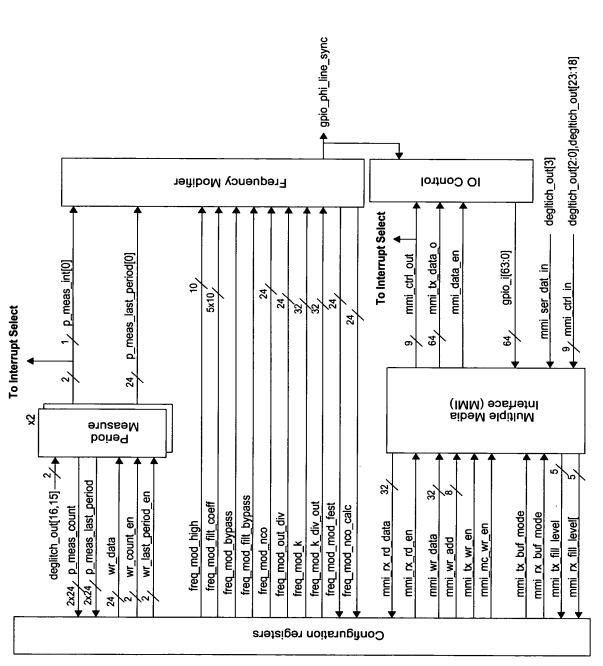


FIG. 55





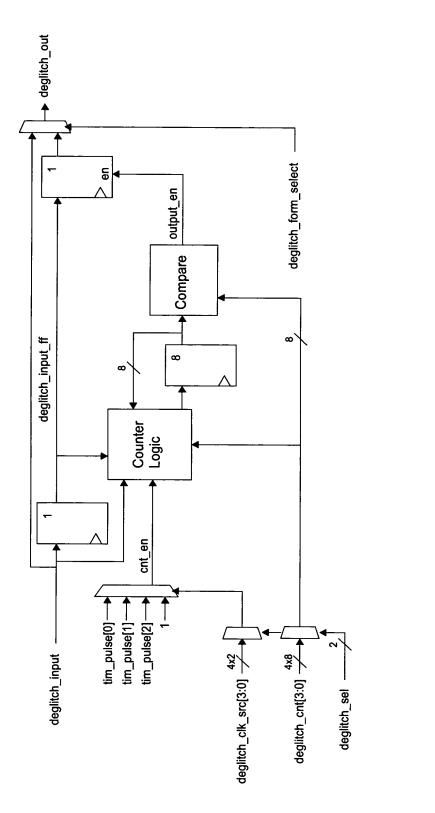


FIG. 57

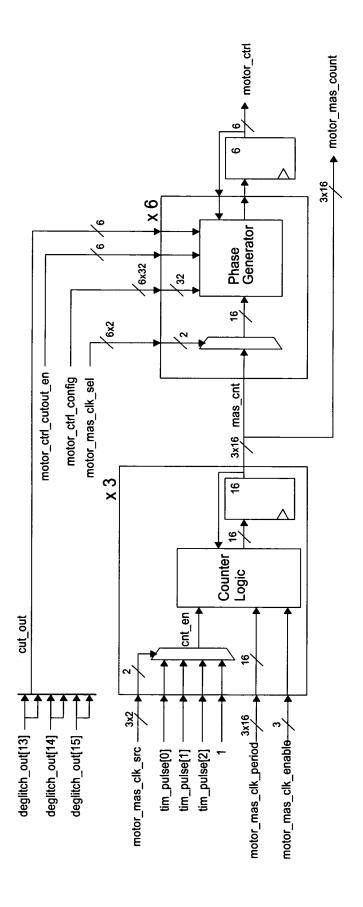


FIG. 58

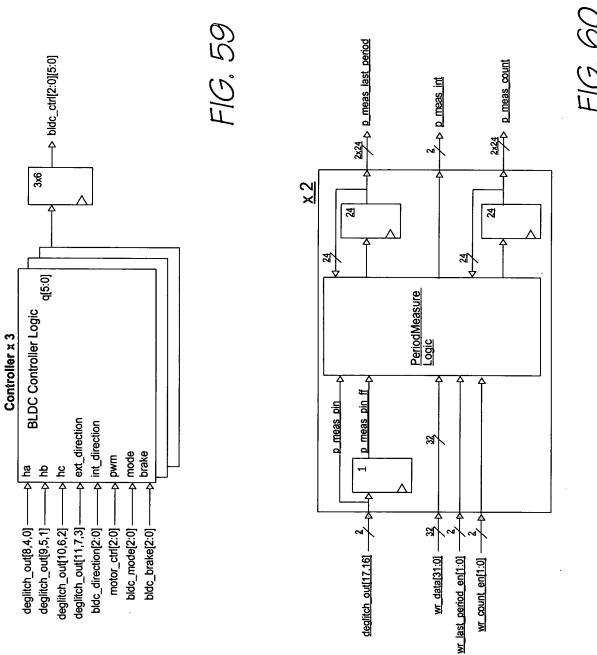
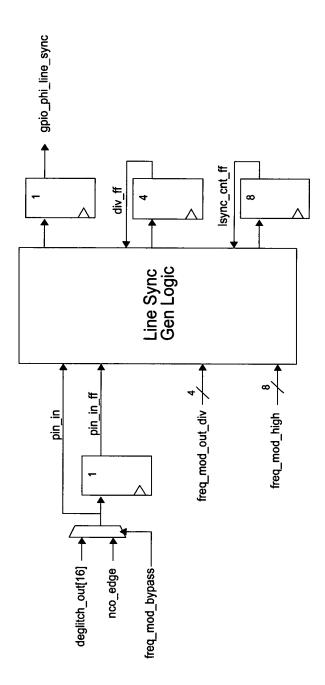


FIG. 60



F1G. 61

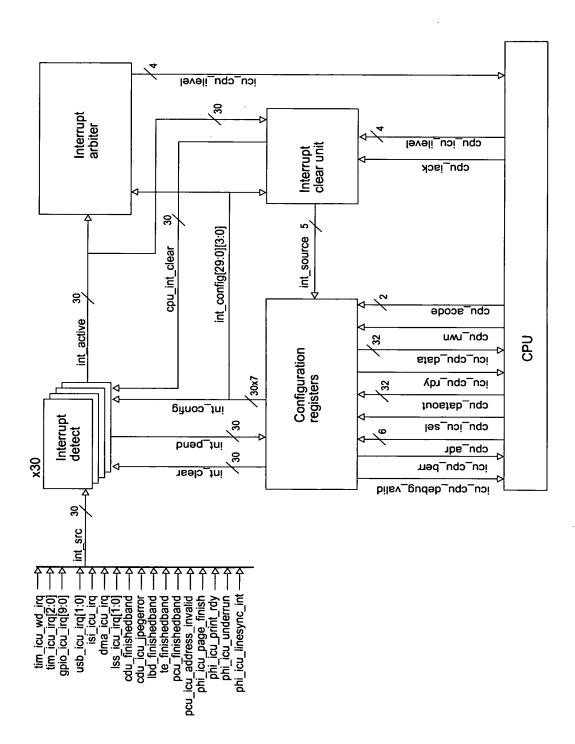
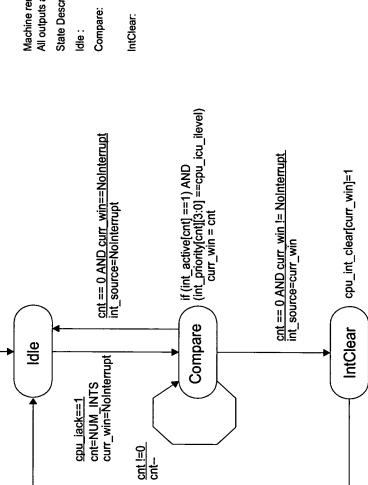


FIG. 62





All outputs are zero unless otherwise stated Machine remains in same state by default

reset==0

State Description:

Normal Idle state

Compare interrupt level. Determines the

interrupt source

Interrupt clear, clear the pending bit for the

current interrupt vector

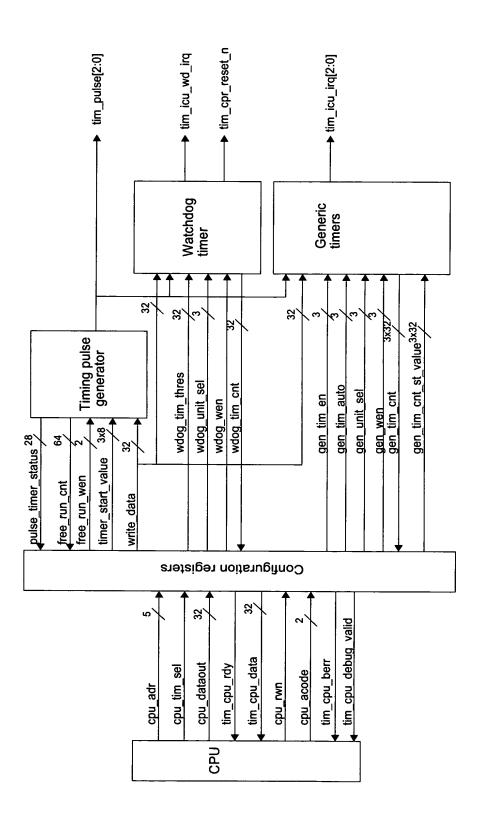


FIG. 63A

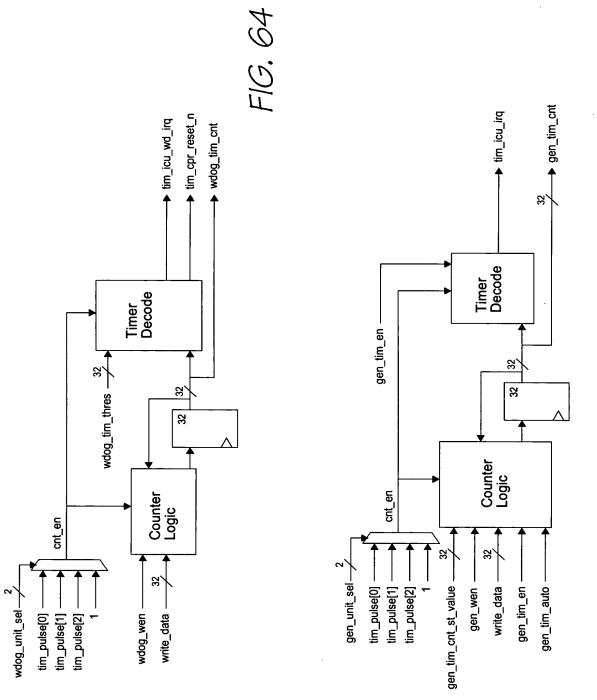


FIG. 65

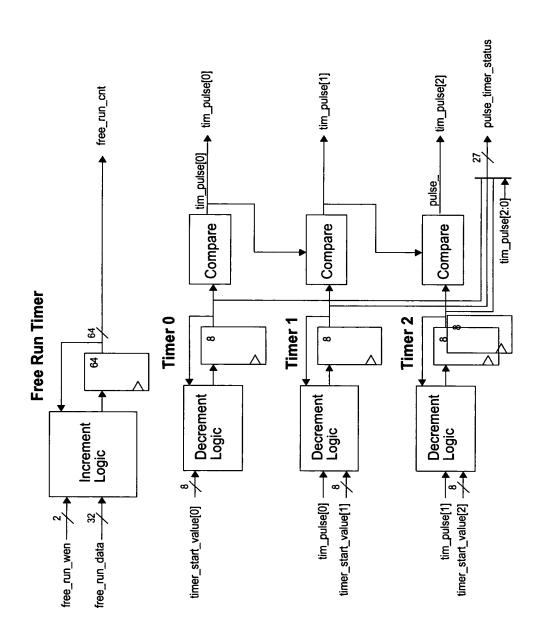


FIG. 66

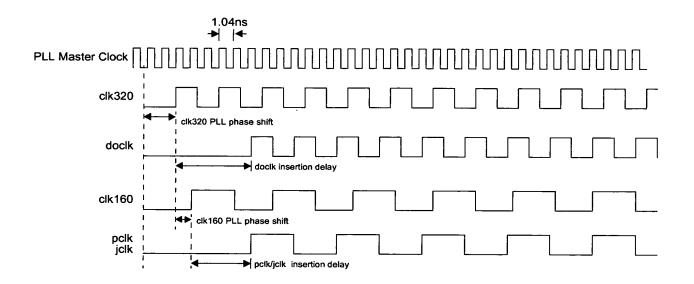


FIG. 67

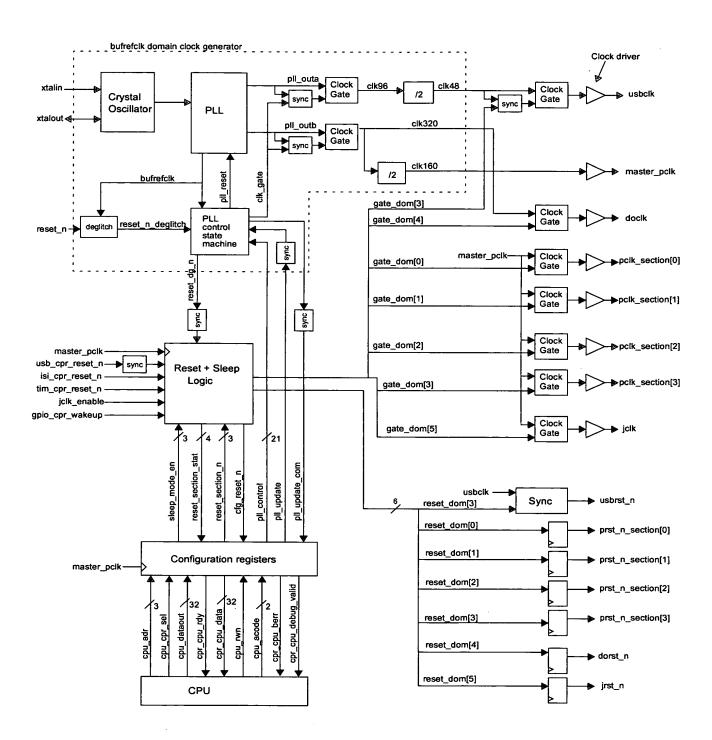
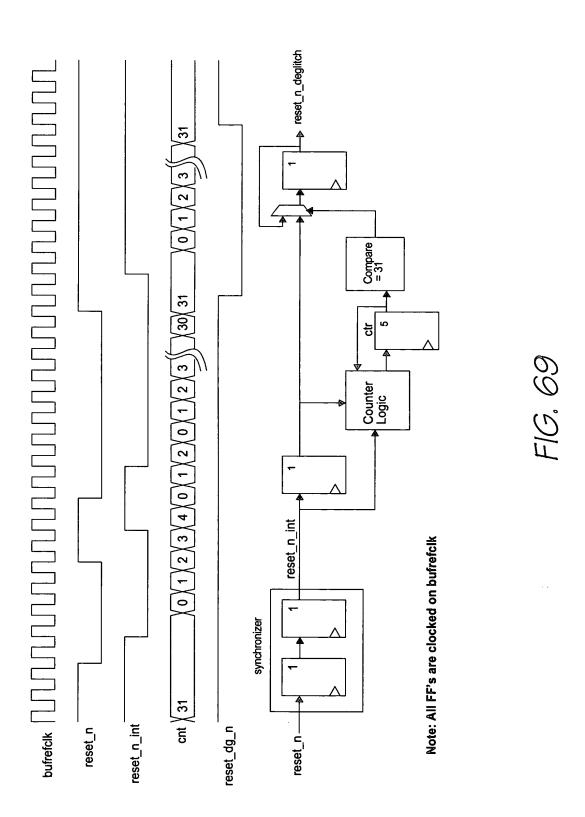
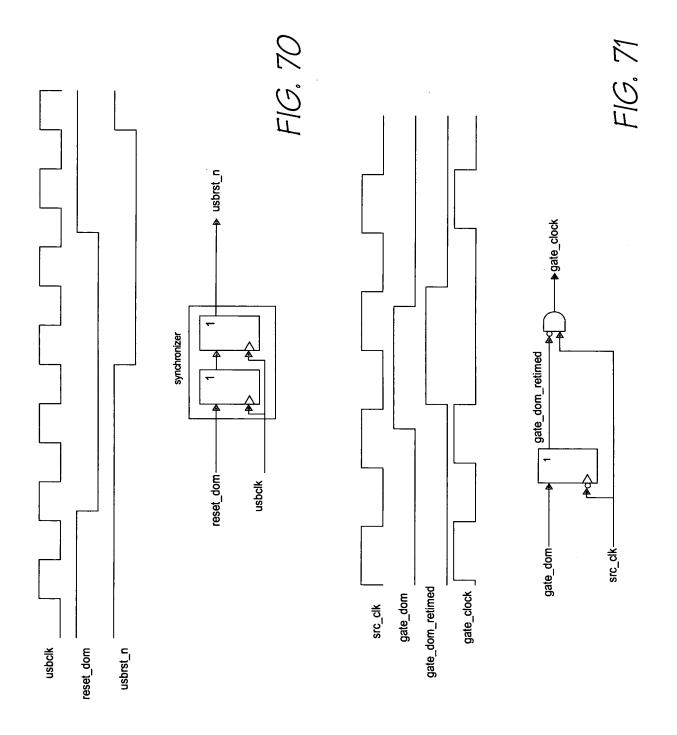
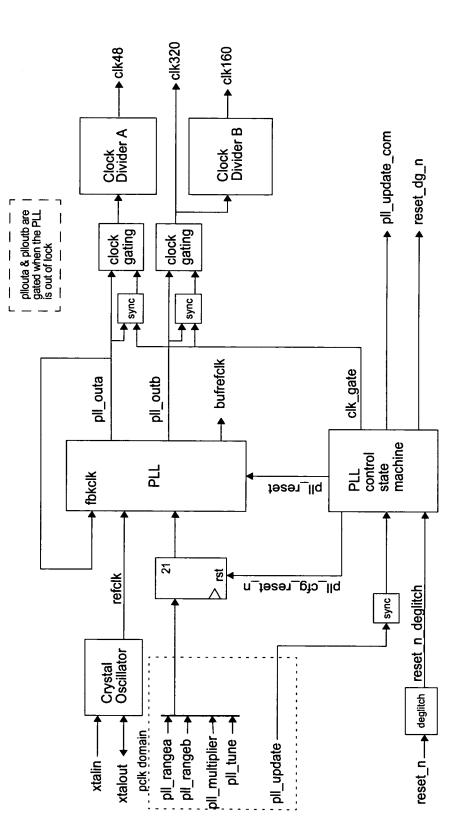


FIG. 68







Note: All logic clocked on bufrefclk unless otherwise indicated

FIG. 72

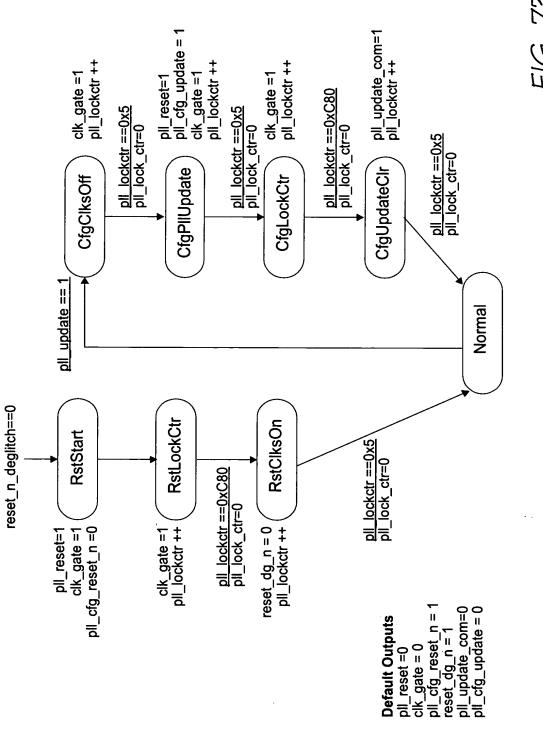


FIG. 73

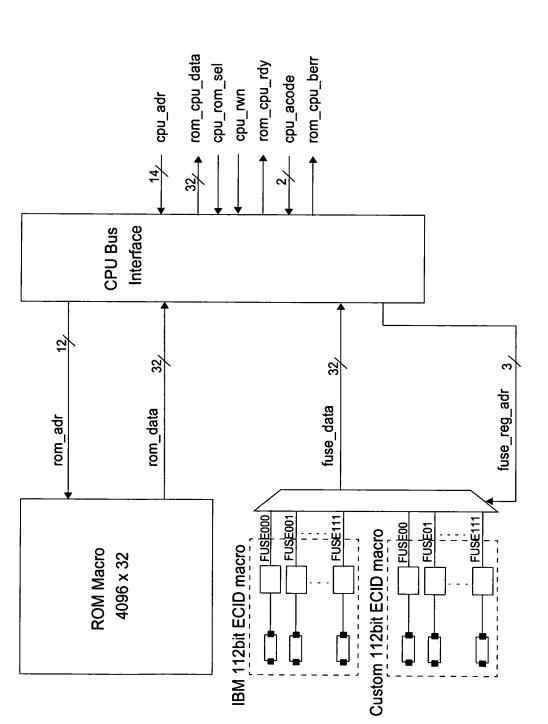


FIG. 74

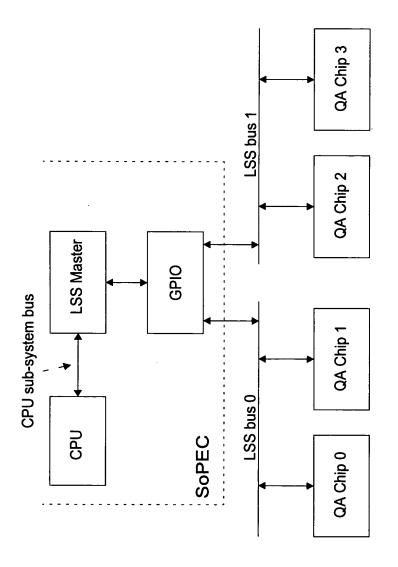
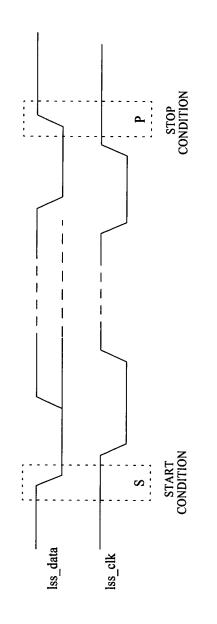


FIG. 75



F1G. 76

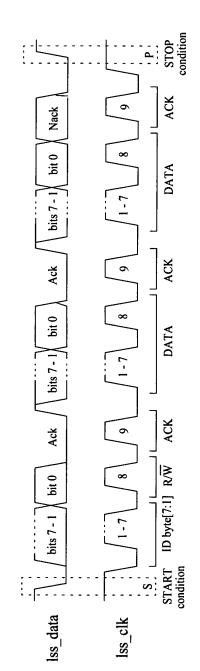


FIG. 77

Д ∢ Byte M Data(8) A Byte M-1 ..... Data(8) V Data(8) ٧ 0 ID byte[7:1]

FIG. 78

S = Start condition
A = Ack
N = Nack
P = Stop condition
Shaded bits driven by slave

N = Nack S = Start condition

P = Stop condition Shaded bits driven by slave

۵,

Z

...... Data(8)

٧

Data(8)

A

Data(8)

¥

ID byte[7:1]

S

Byte M

FIG. 79

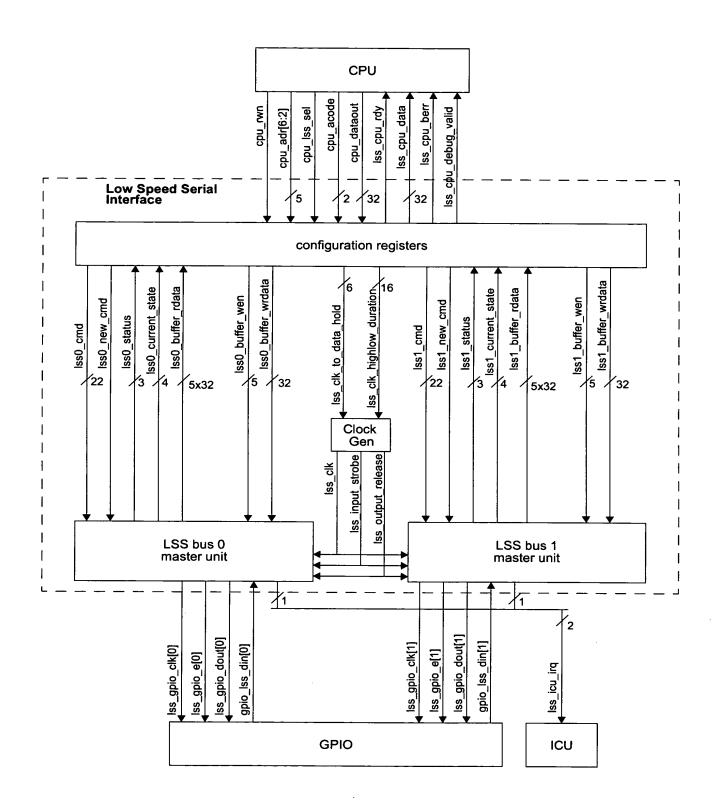


FIG. 80

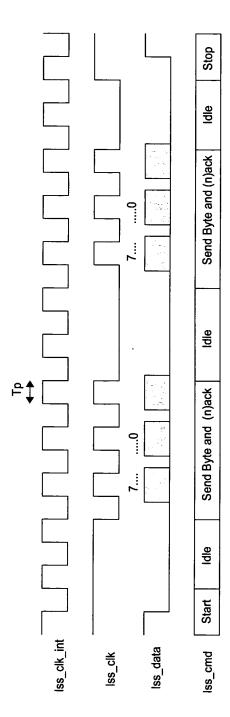


FIG. 81

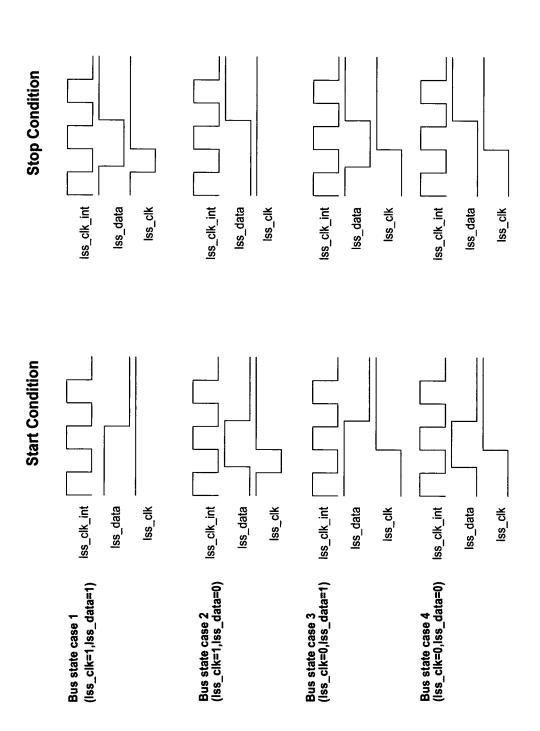


FIG. 82

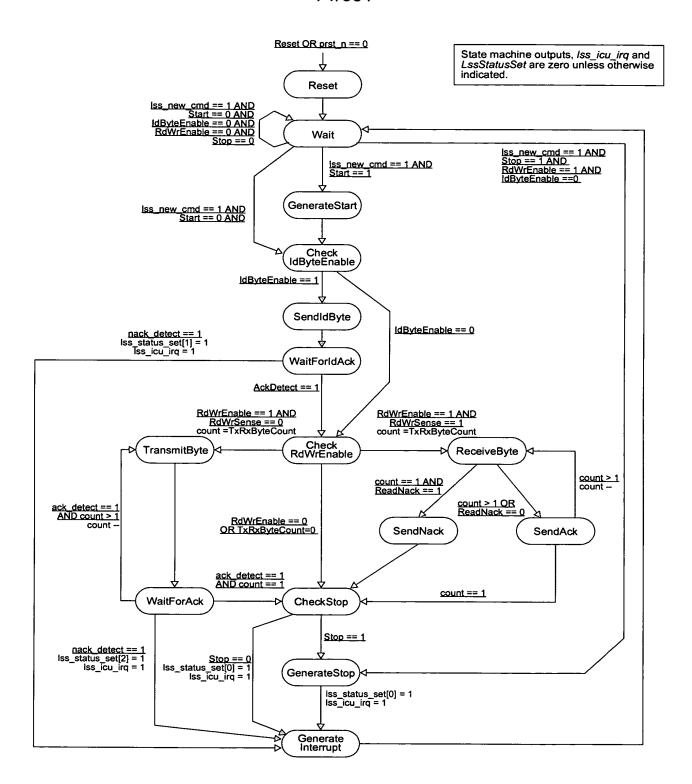


FIG. 83

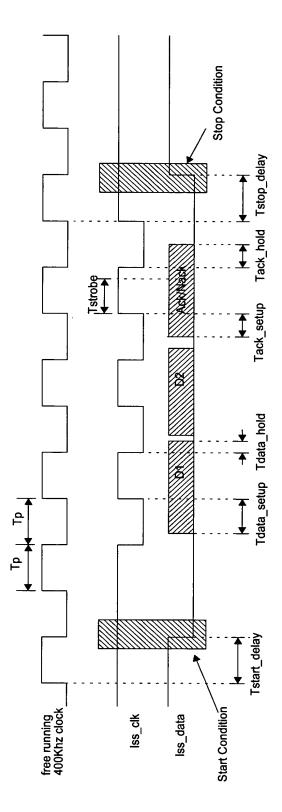


FIG. 84

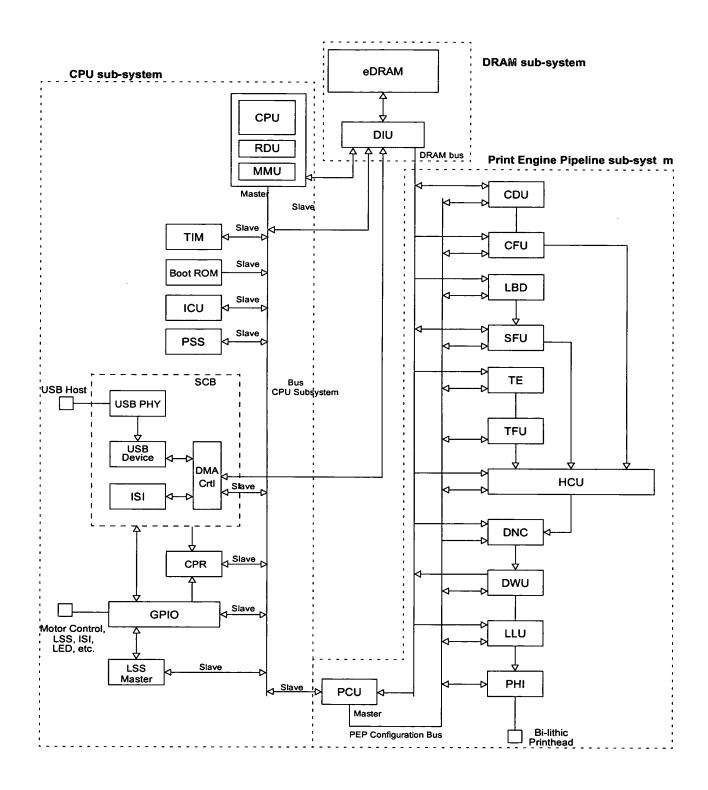


FIG. 85

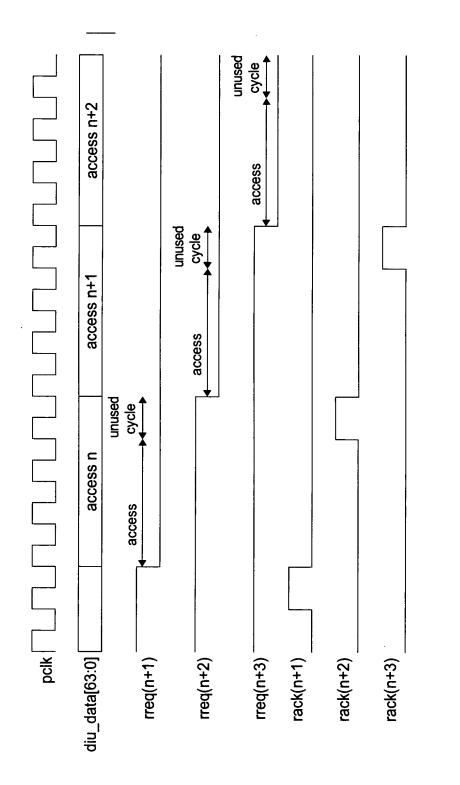


FIG. 86

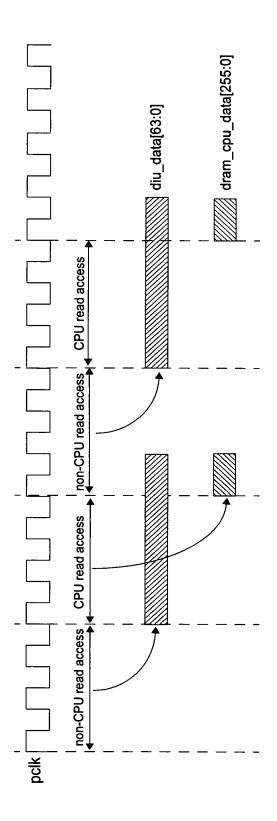


FIG. 87

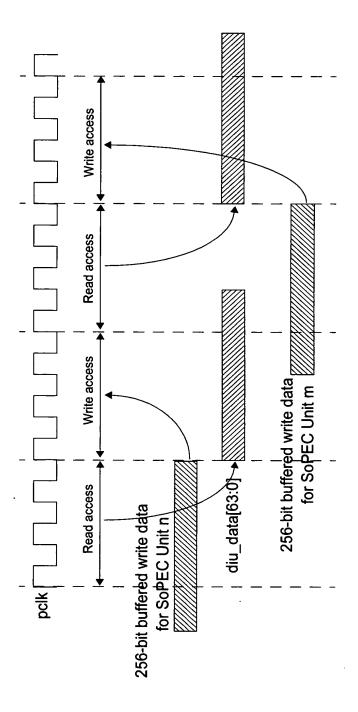


FIG. 88

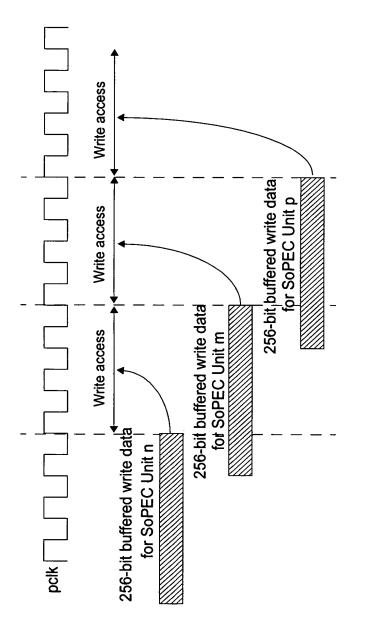


FIG. 89

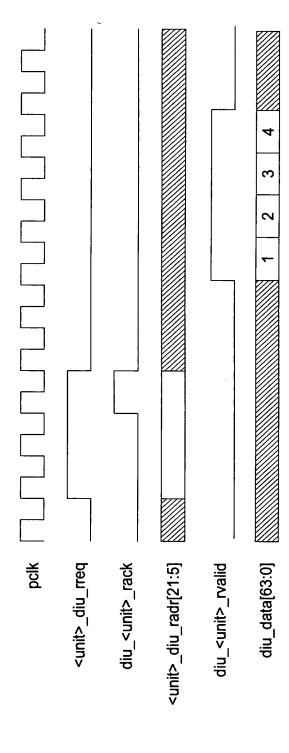


FIG. 90

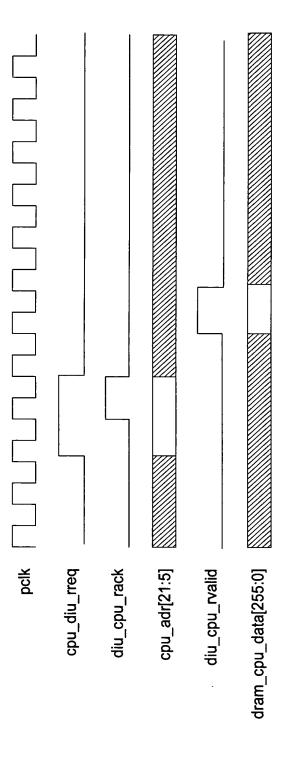


FIG. 91

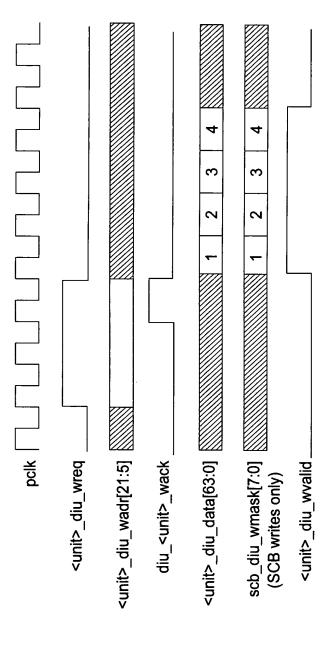


FIG. 92

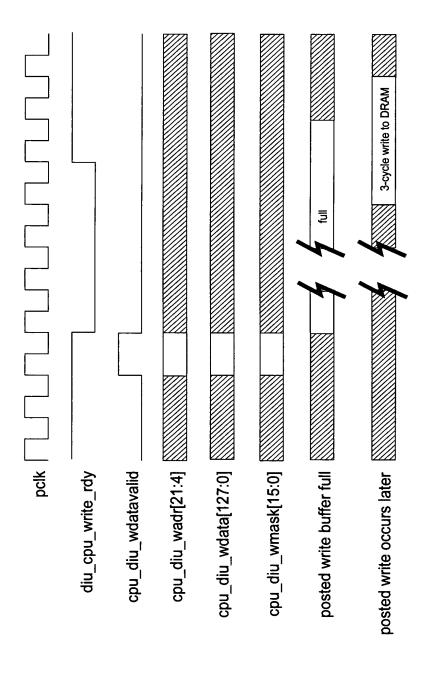
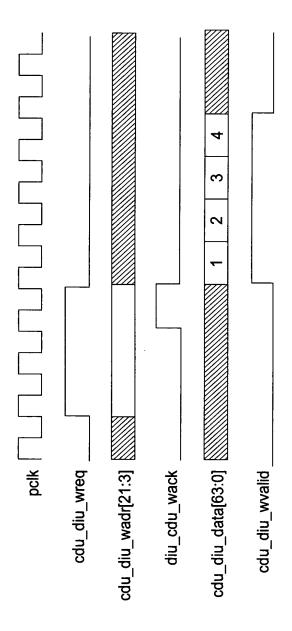


FIG. 93



F1G. 94

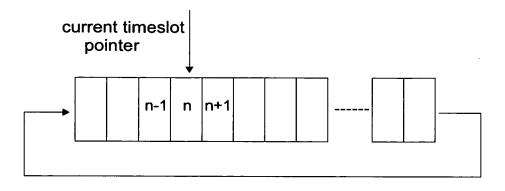


FIG. 95

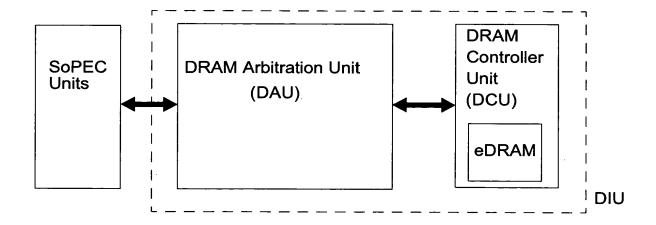


FIG. 100

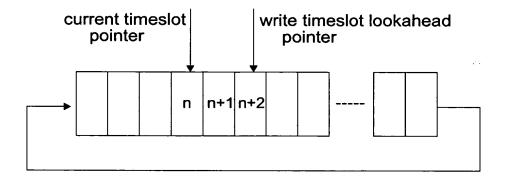


FIG. 96

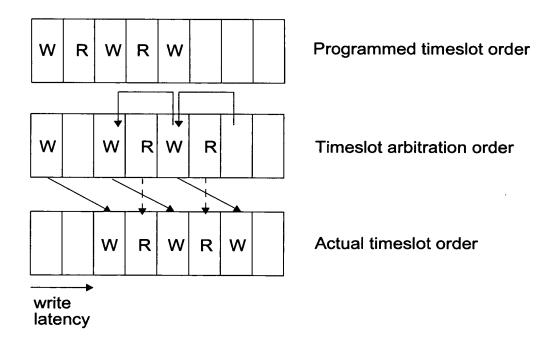


FIG. 97

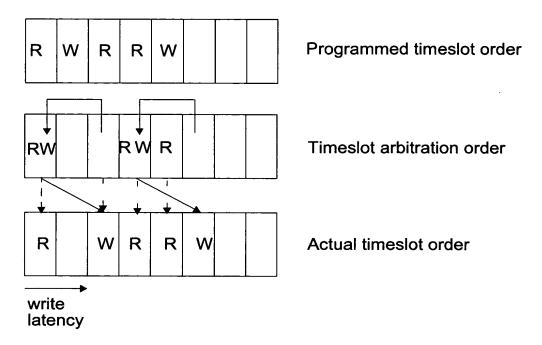


FIG. 98

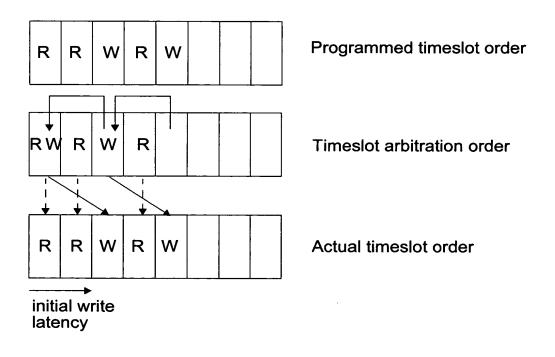


FIG. 99

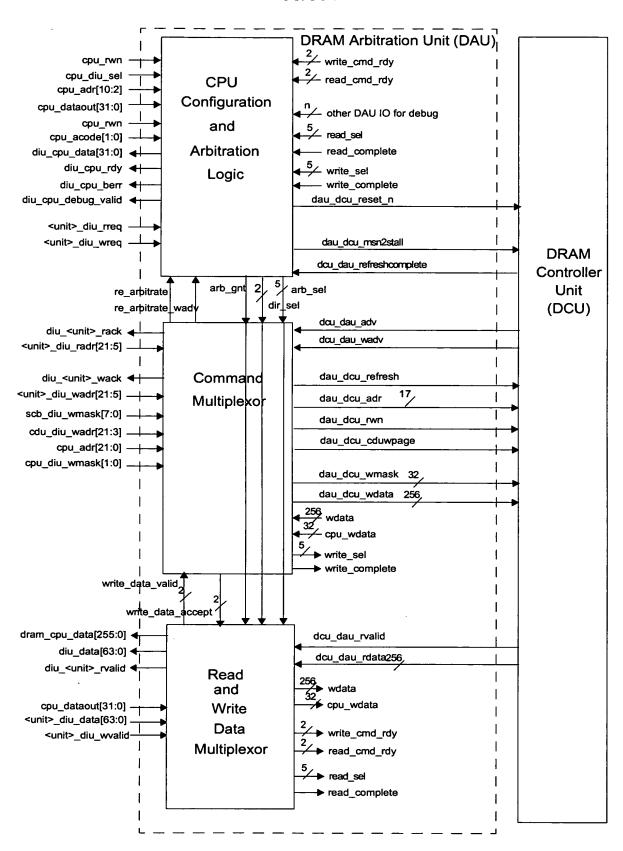


FIG. 101

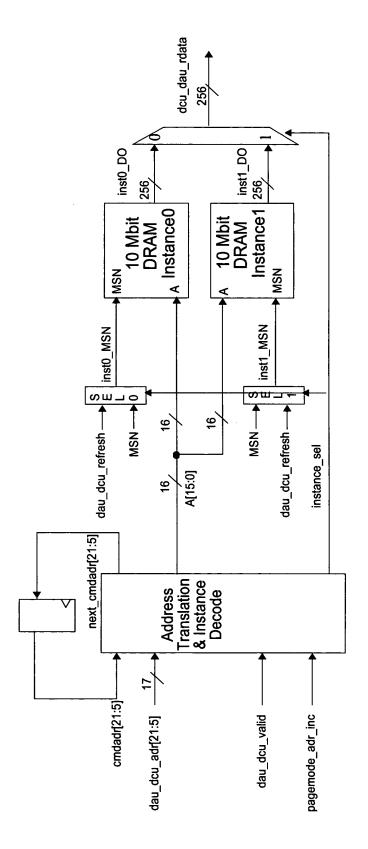


FIG. 102

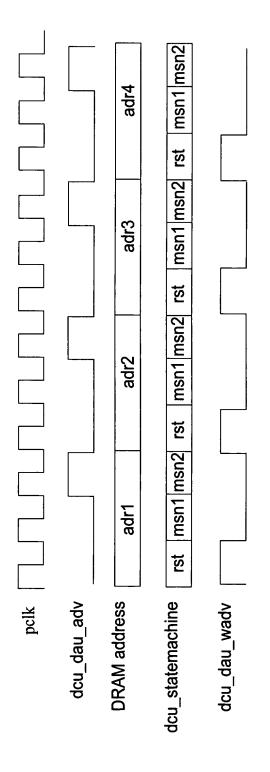


FIG. 103

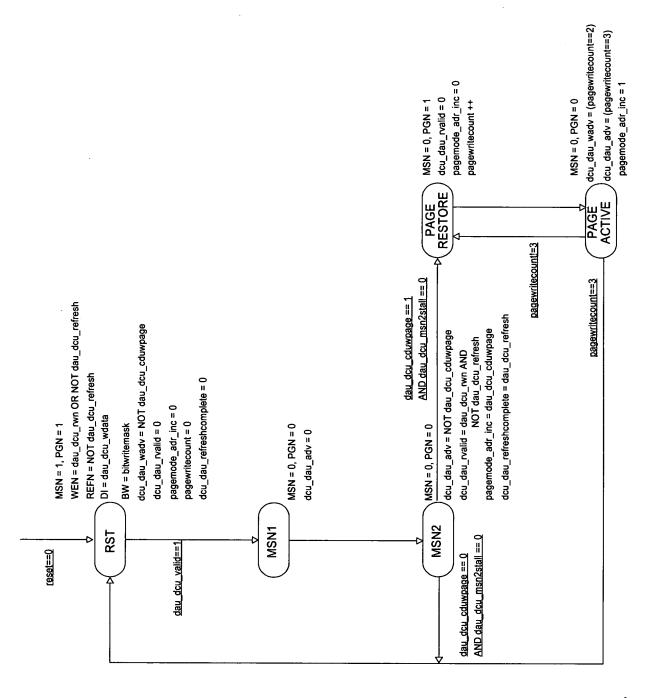


FIG. 104

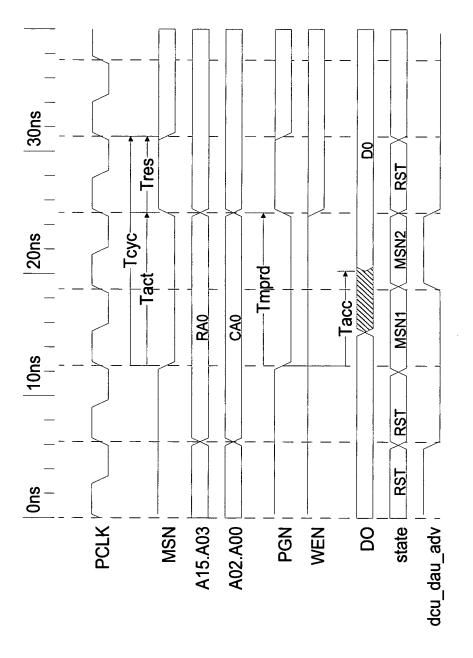


FIG. 105

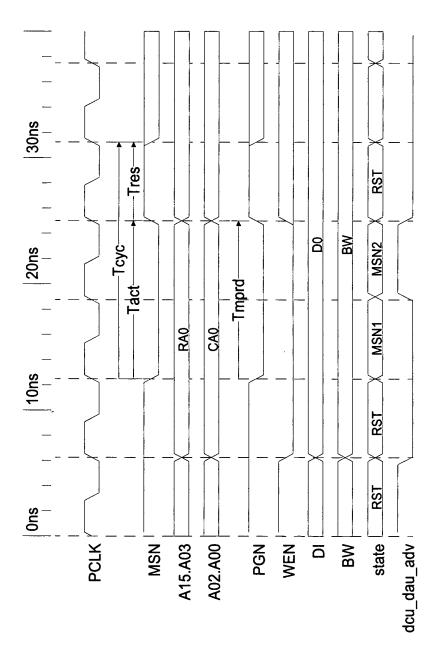


FIG. 106

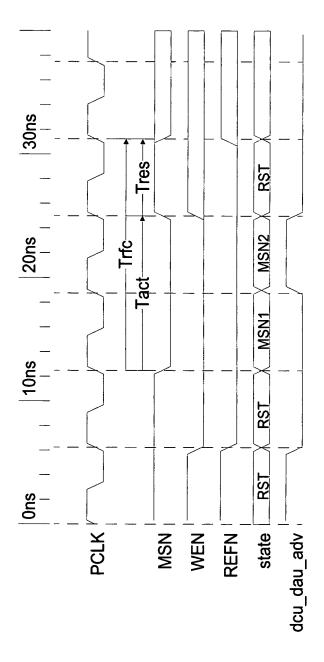


FIG. 107

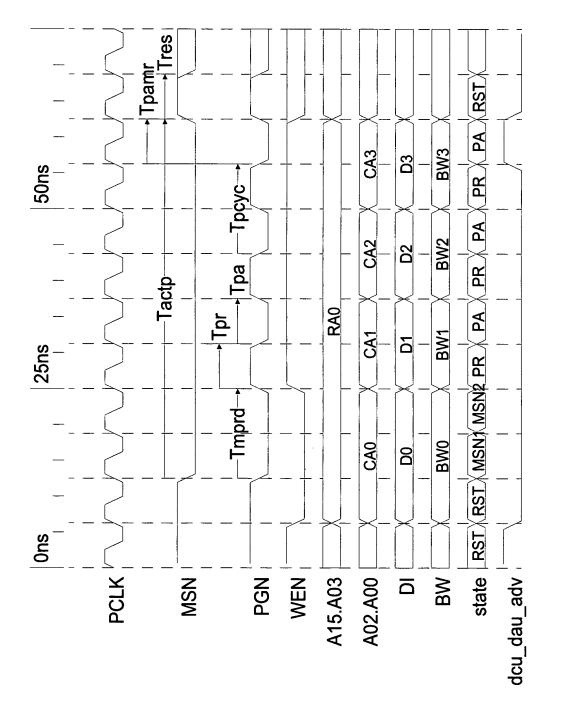


FIG. 108

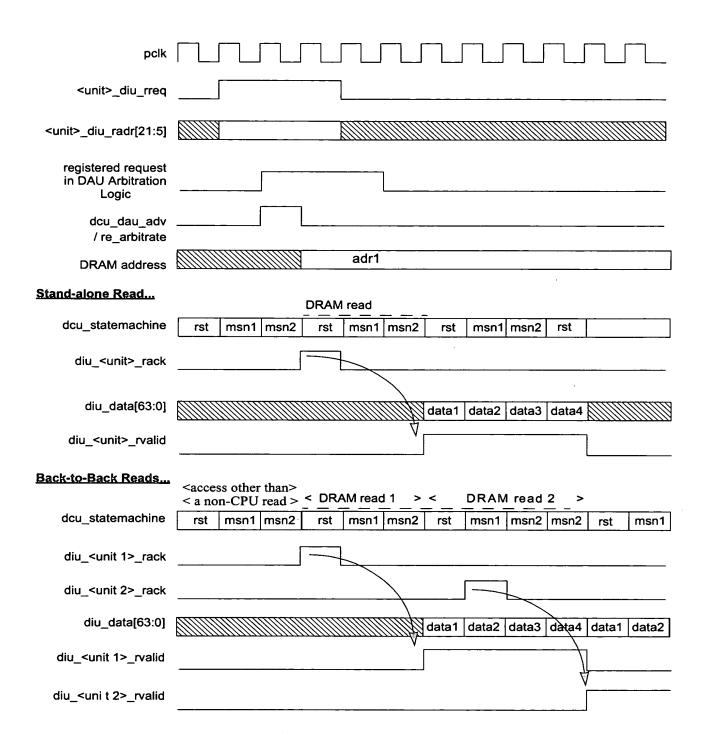


FIG. 109

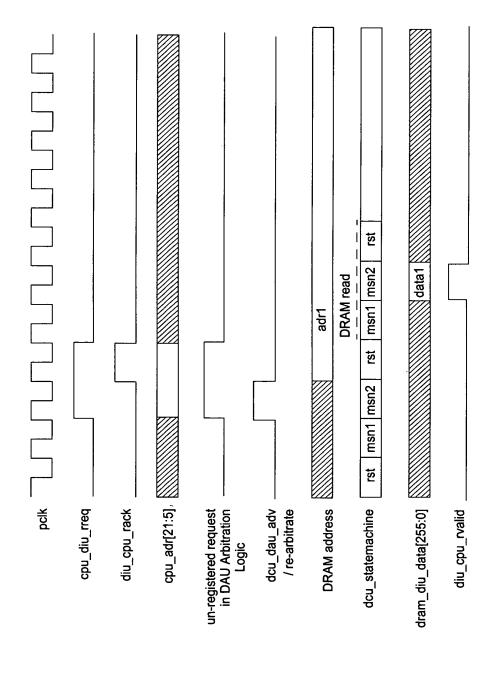
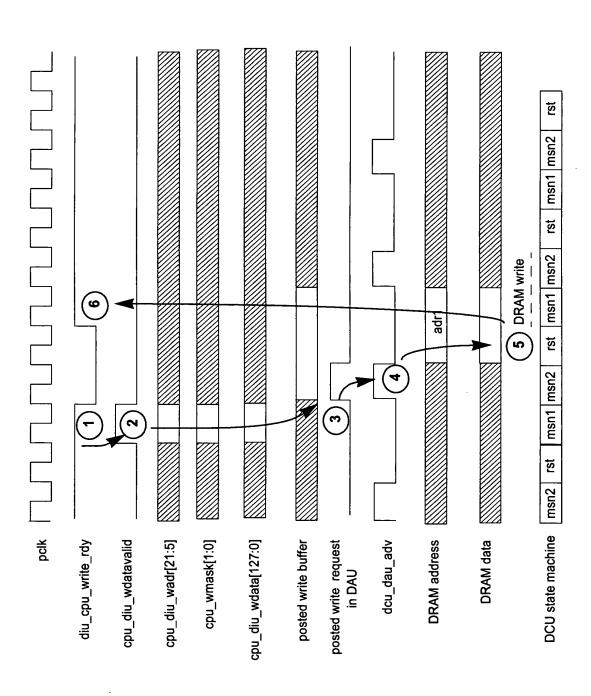
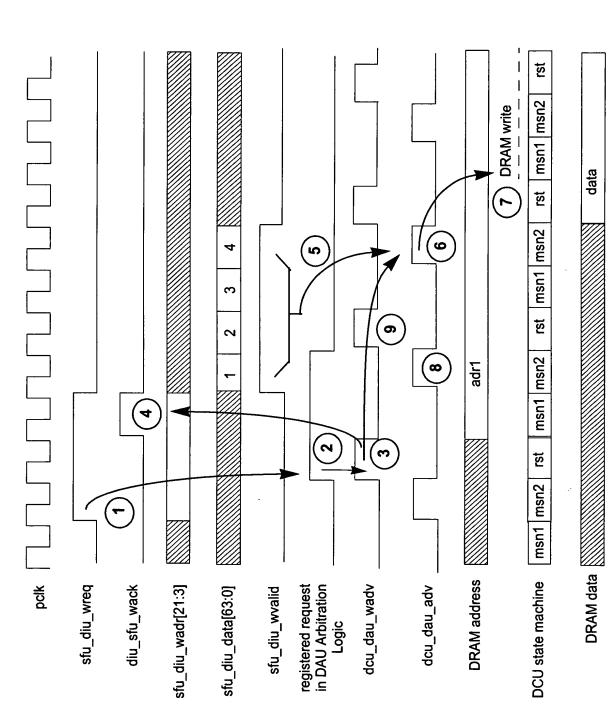


FIG. 110

CPU MMU logic delay CPU generates request Arbitration occurs	cycle 6
CPU captures read data in AHB bridge	cycle 5
DRAM access (MSN2)	cycle 4
DRAM access (MSN1)  Tacc = 8 ns	cycle 3
DCU Address setup cycle (RST)	cycle 2
CPU MMU logic delay CPU generates request Arbitration occurs	cycle 1

FIG. 11





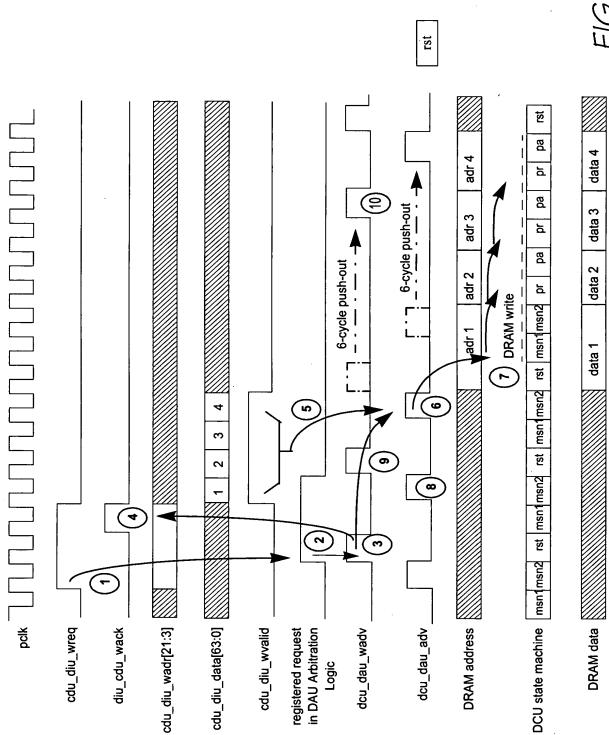
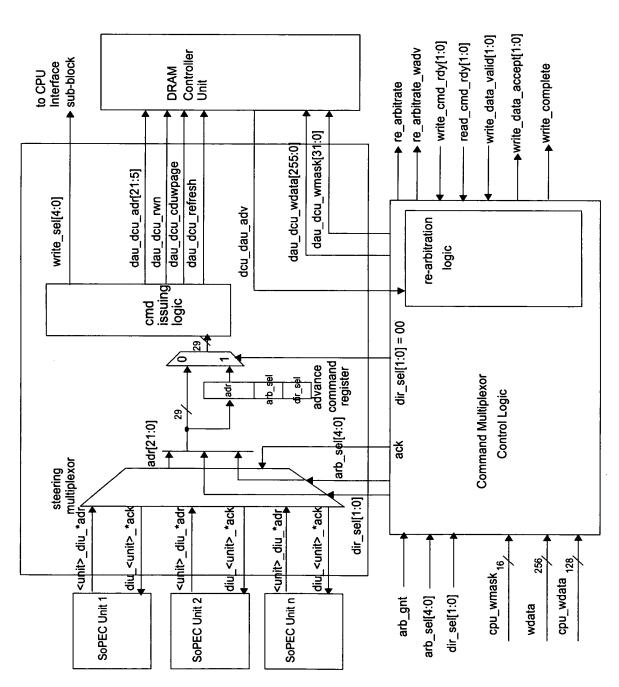


FIG. 114



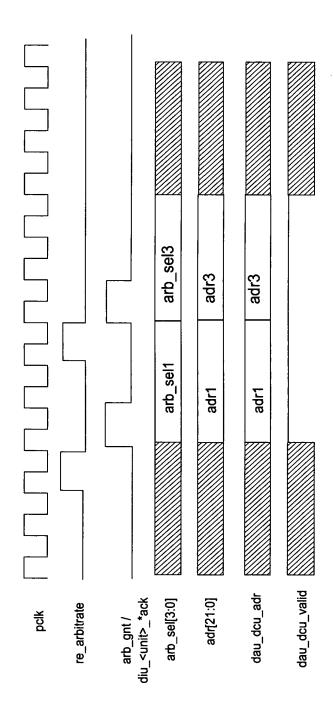


FIG. 116

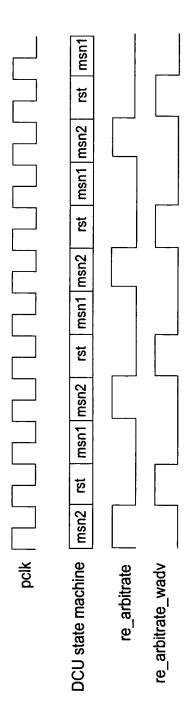


FIG. 117

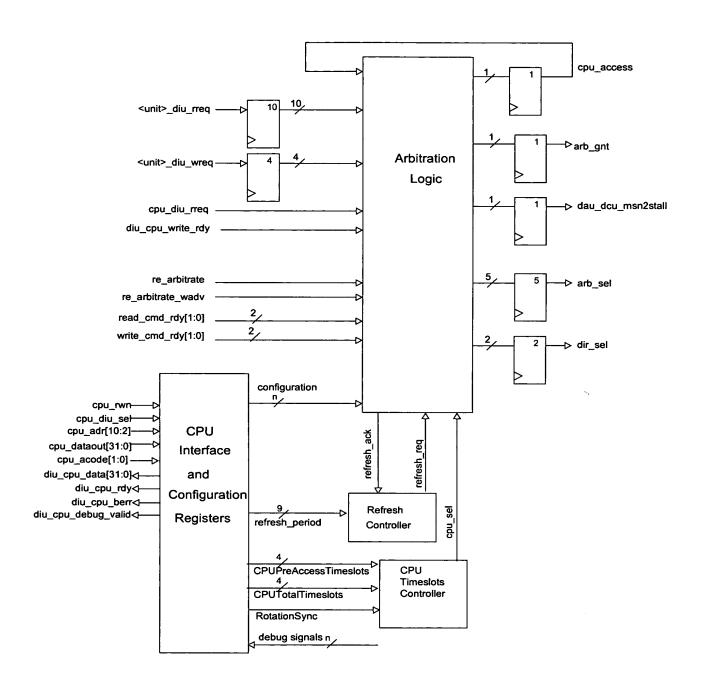


FIG. 118

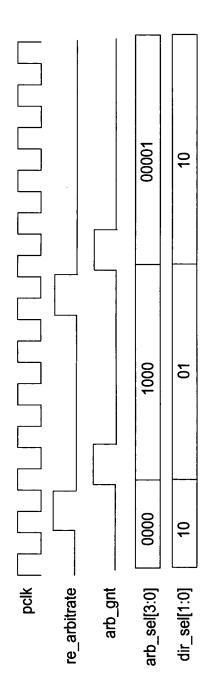


FIG. 119

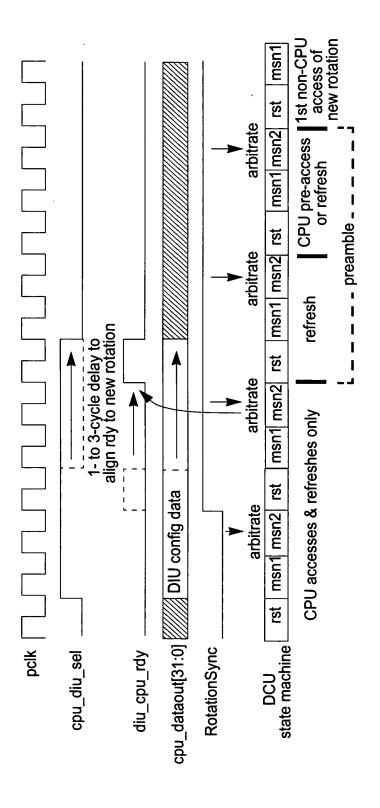


FIG. 120

## 106/331

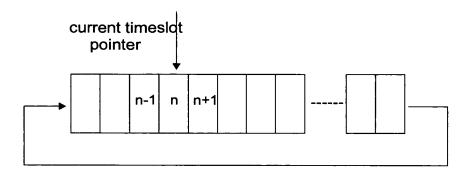


FIG. 121

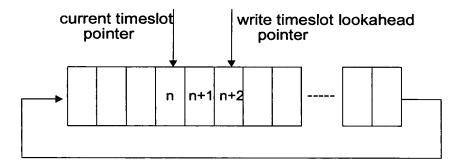


FIG. 122

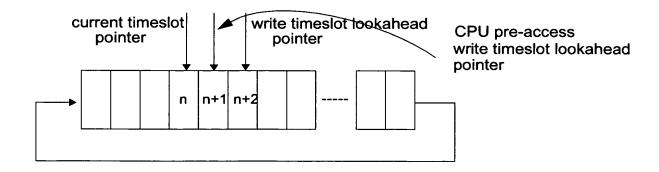


FIG. 123

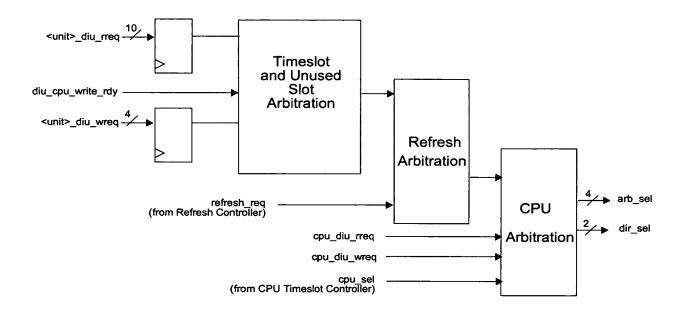


FIG. 124

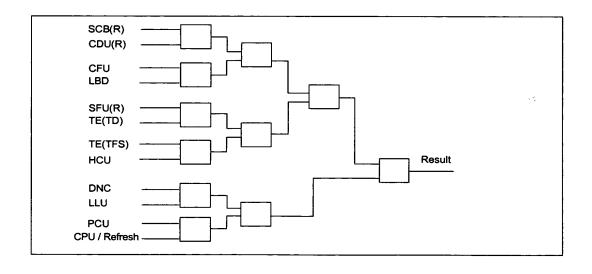


FIG. 125

SoPEC Unit 1

64, diu\_data

2

8

dcu\_dau\_rvalid

S G

256, dram\_cpu\_data

diu\_cpu\_rvalid

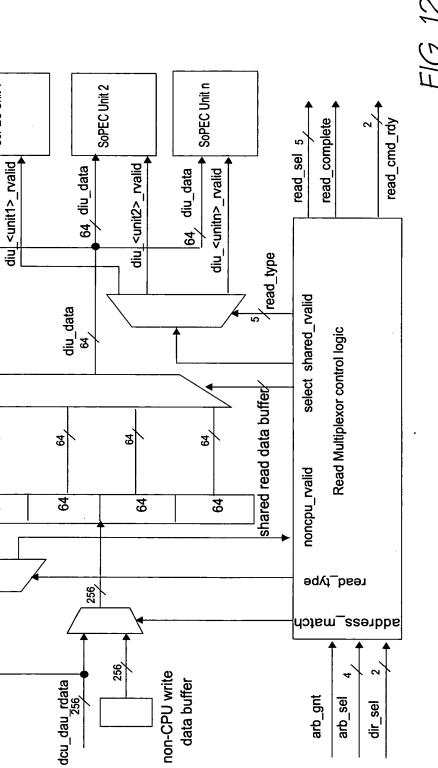


FIG. 126

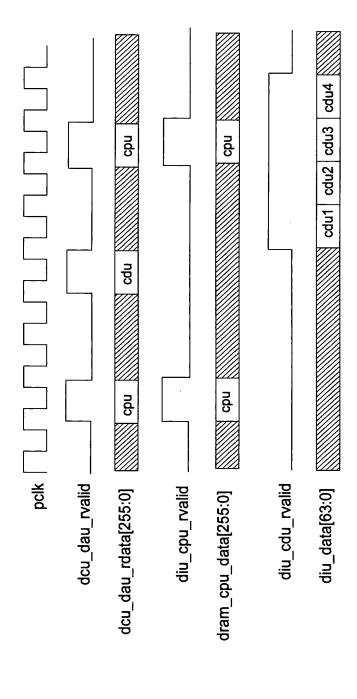


FIG. 127

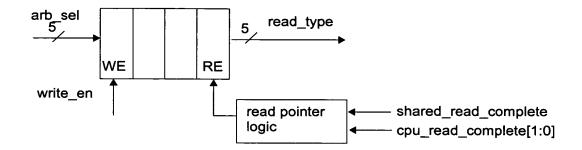


FIG. 128

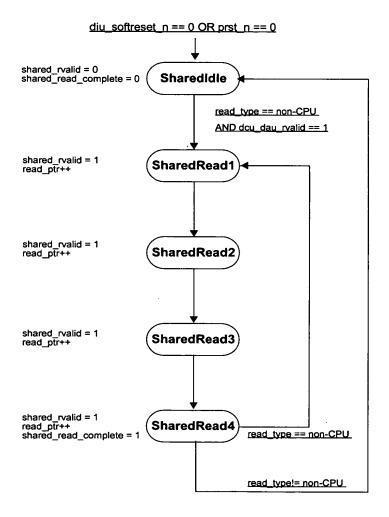


FIG. 129

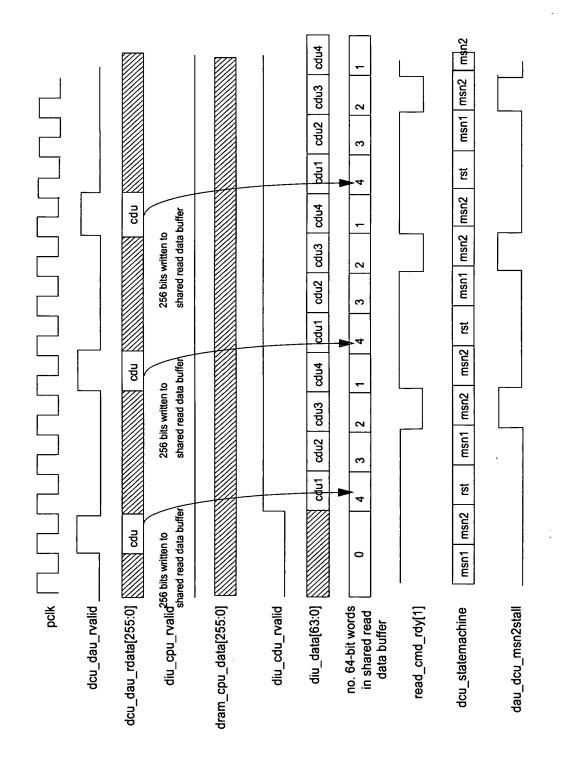


FIG. 130

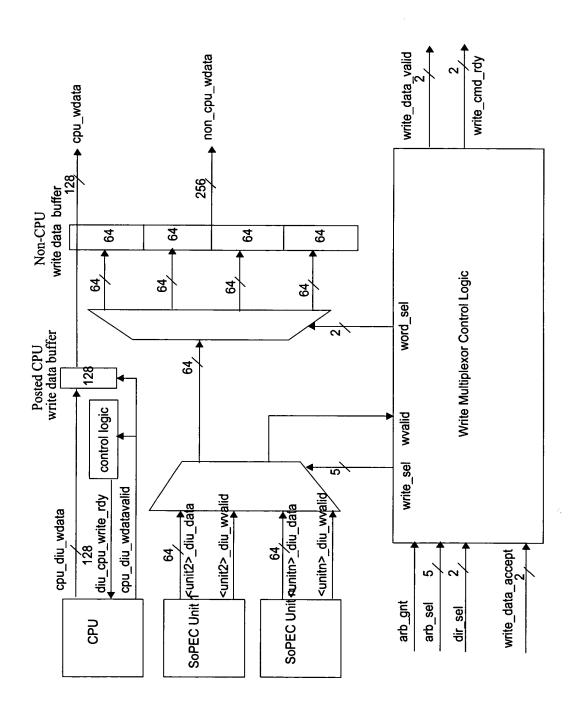


FIG. 131

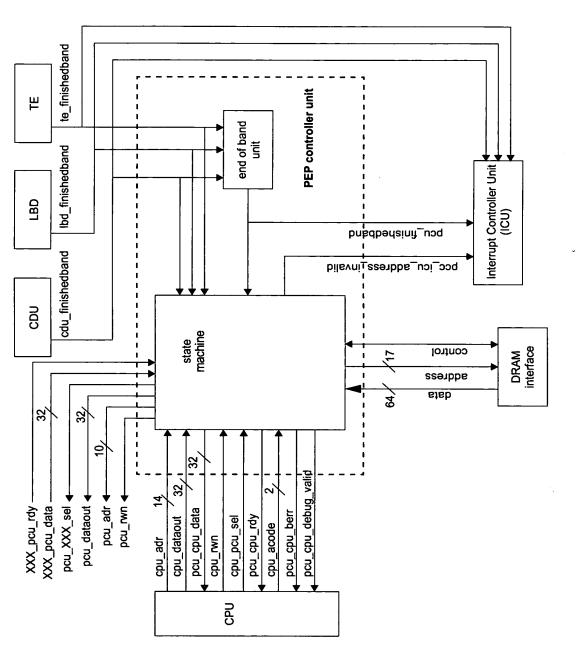


FIG. 132

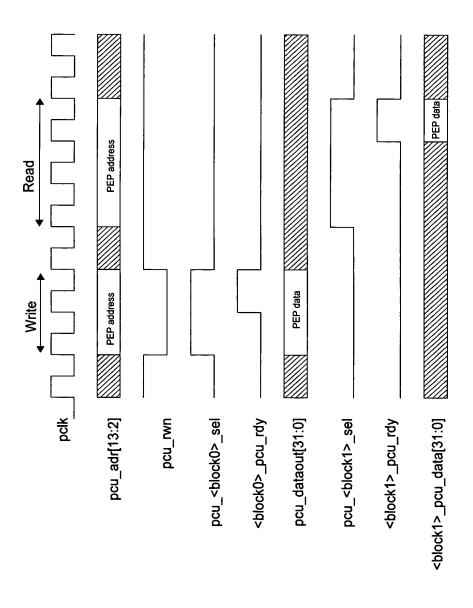


FIG. 133

## State Machine A

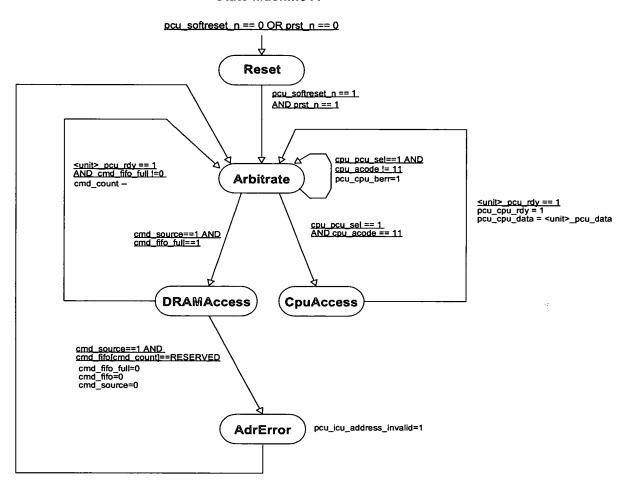


FIG. 134

## State Machine B

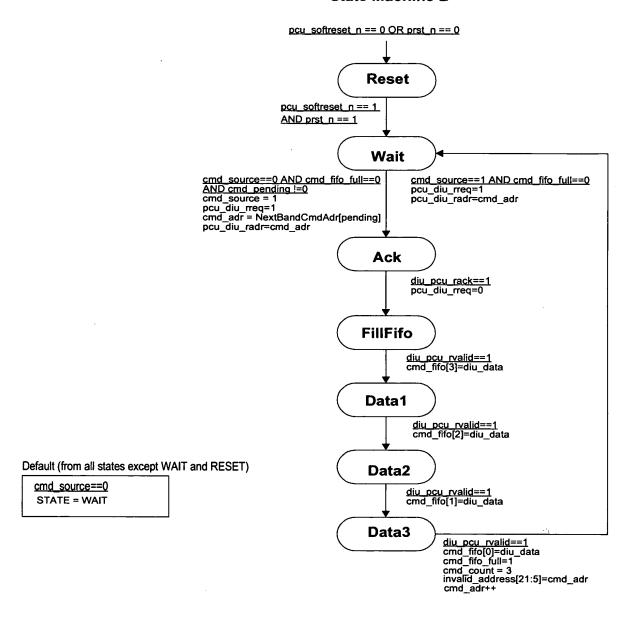


FIG. 135

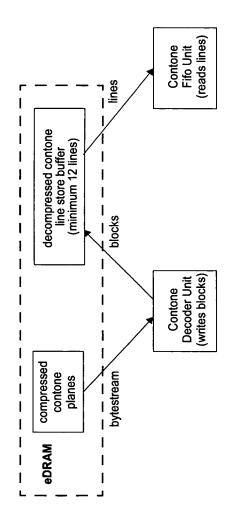


FIG. 136

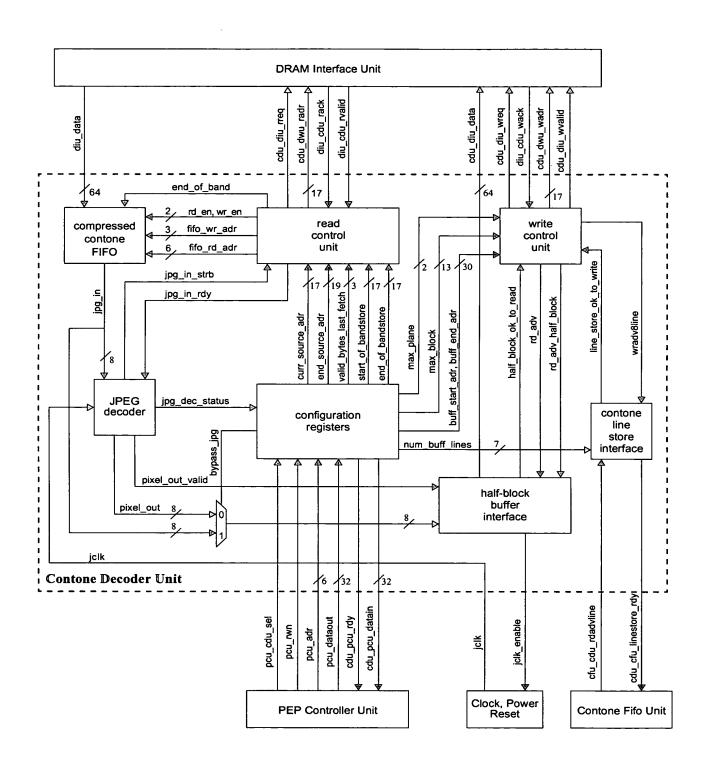


FIG. 137

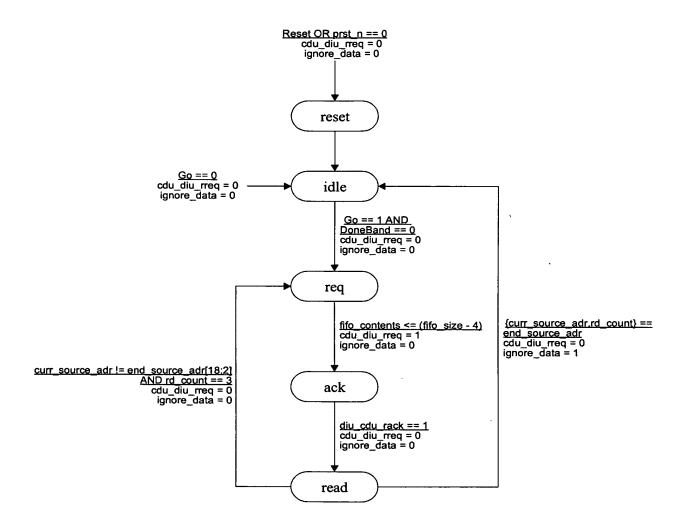


FIG. 138

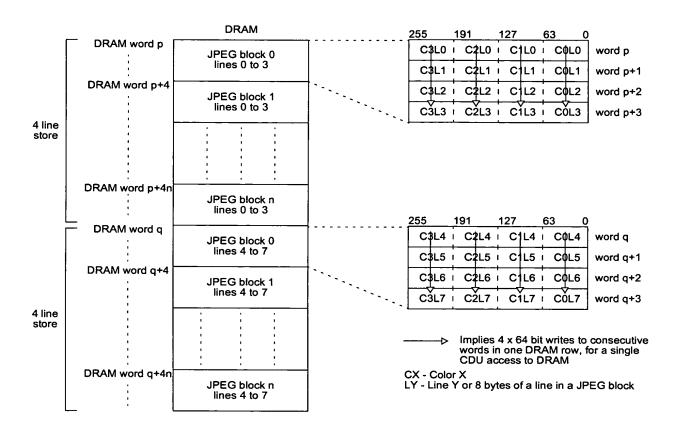
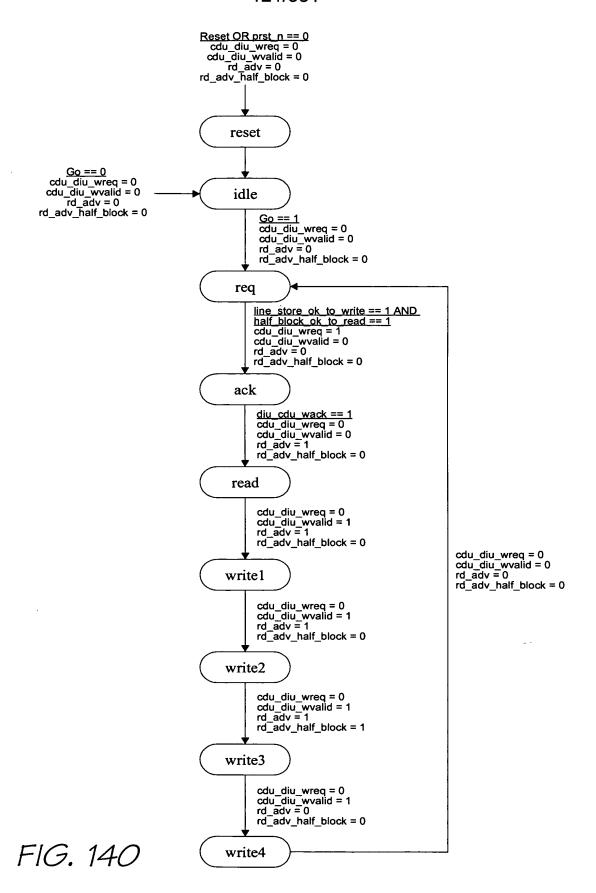


FIG. 139



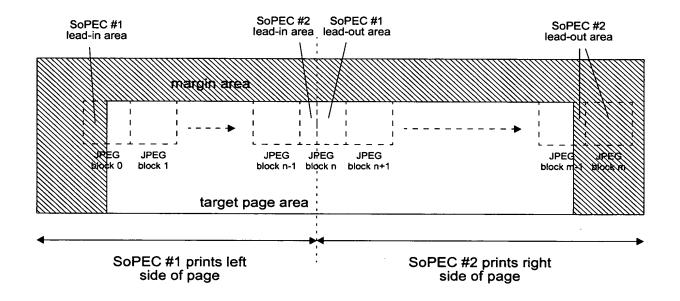


FIG. 141

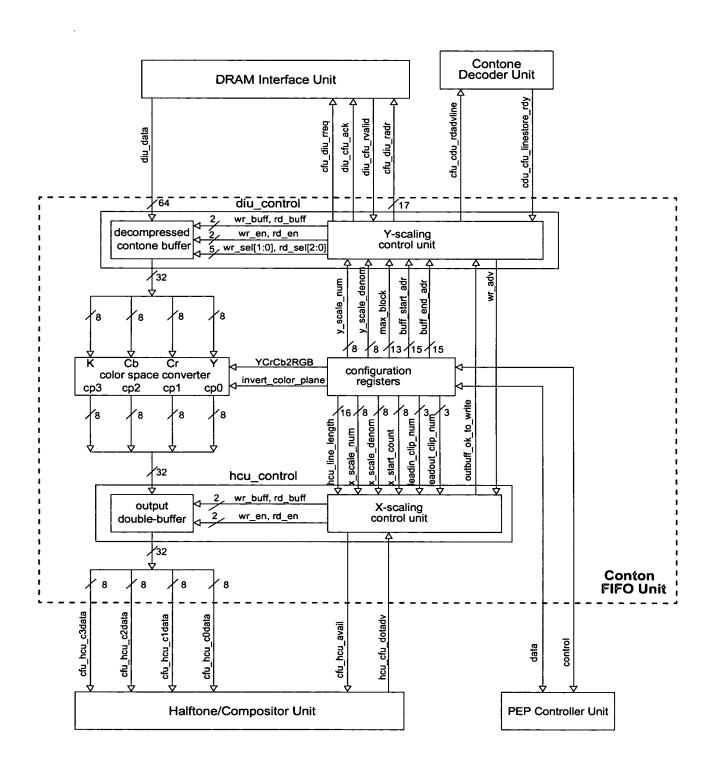


FIG. 142

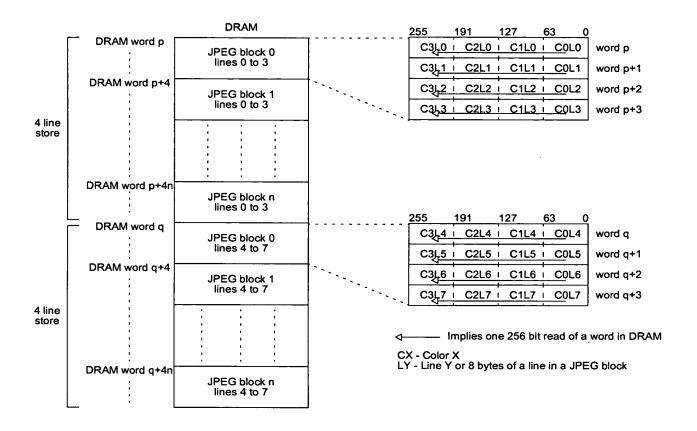


FIG. 143

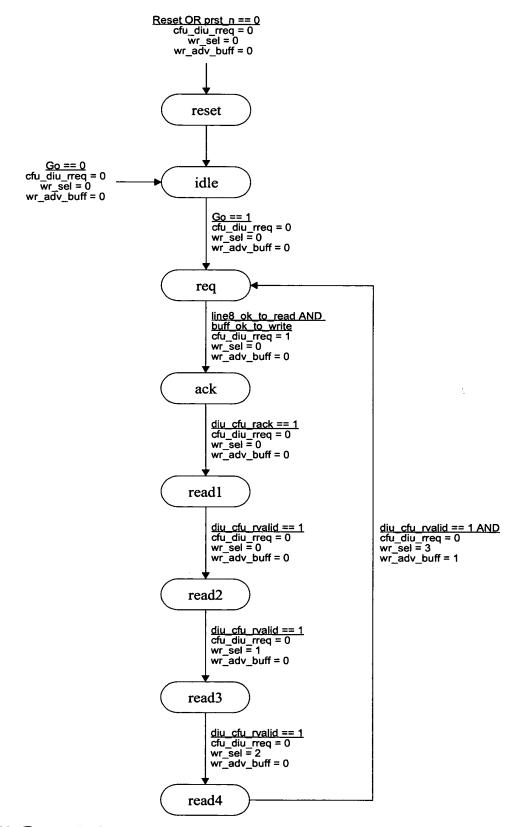


FIG. 144

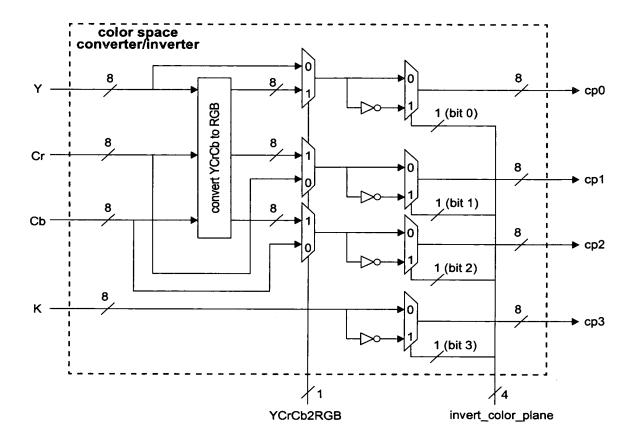


FIG. 145

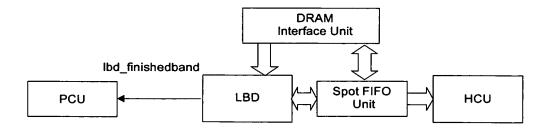


FIG. 146

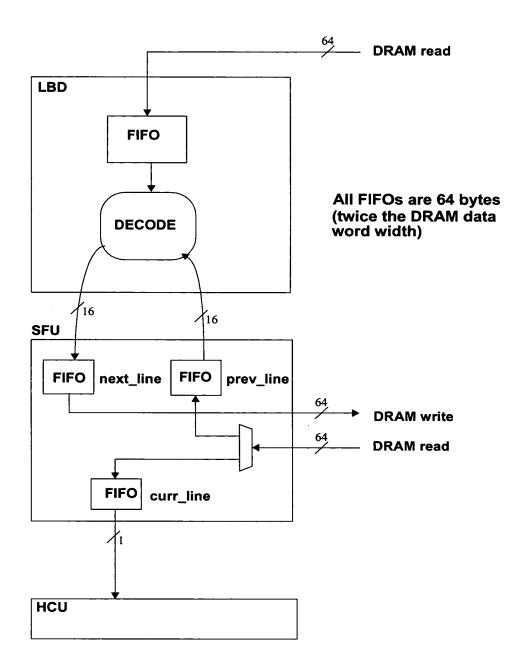


FIG. 147

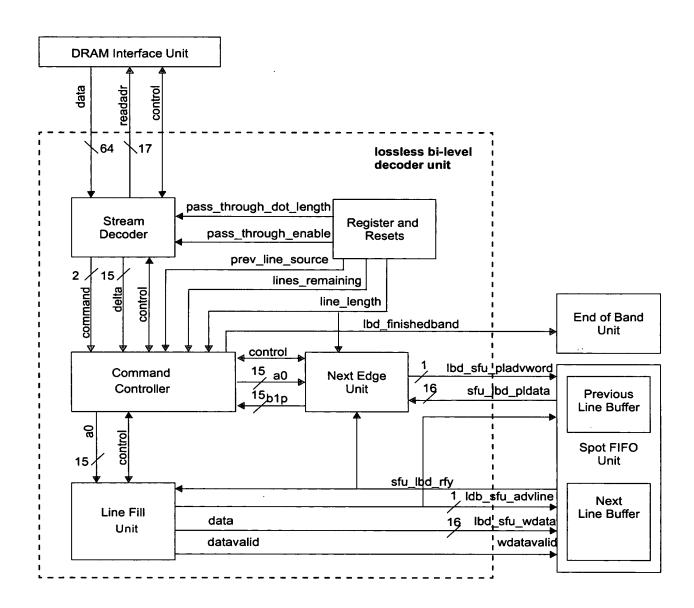


FIG. 148

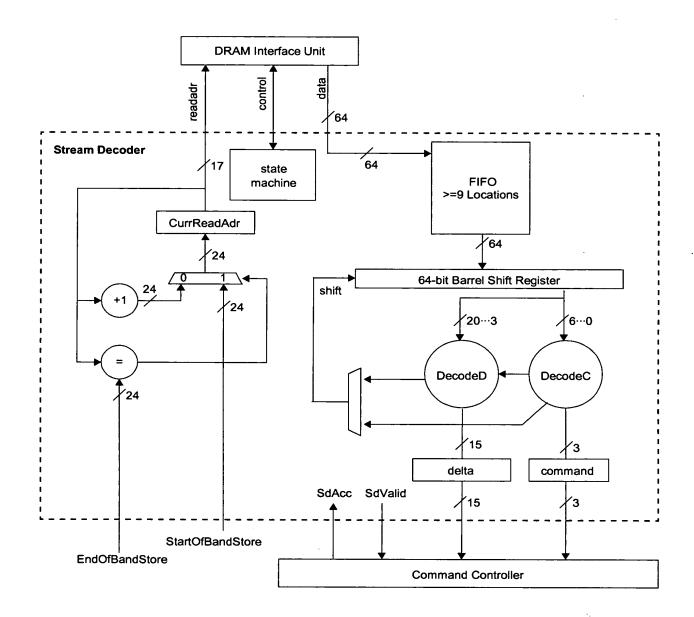


FIG. 149

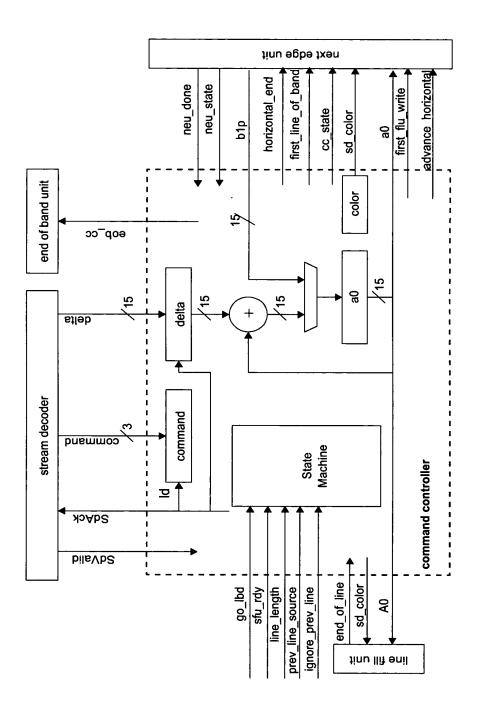


FIG. 150

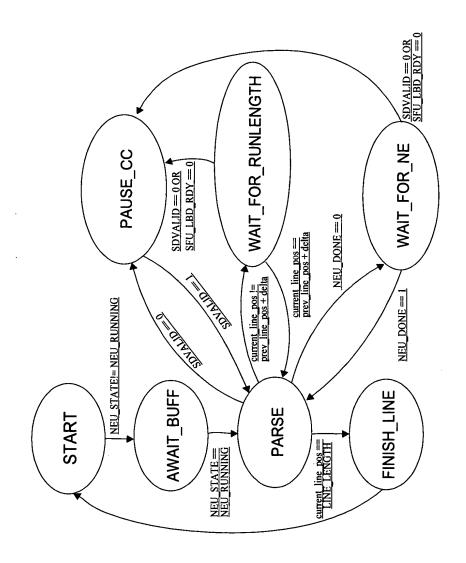


FIG. 151

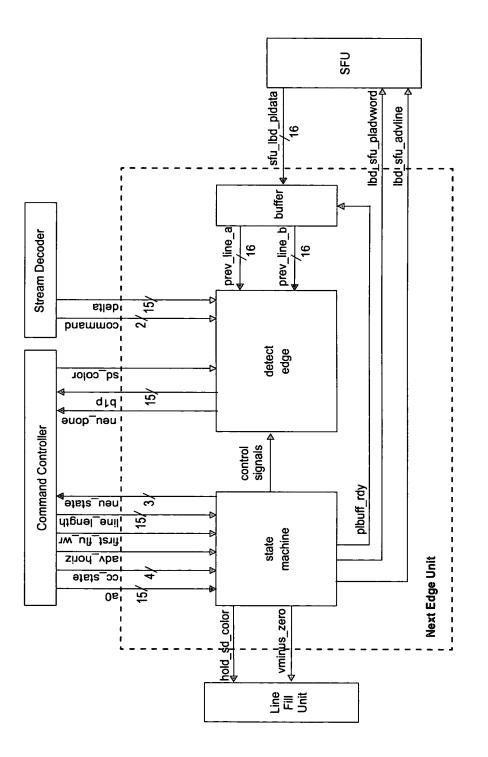


FIG. 152

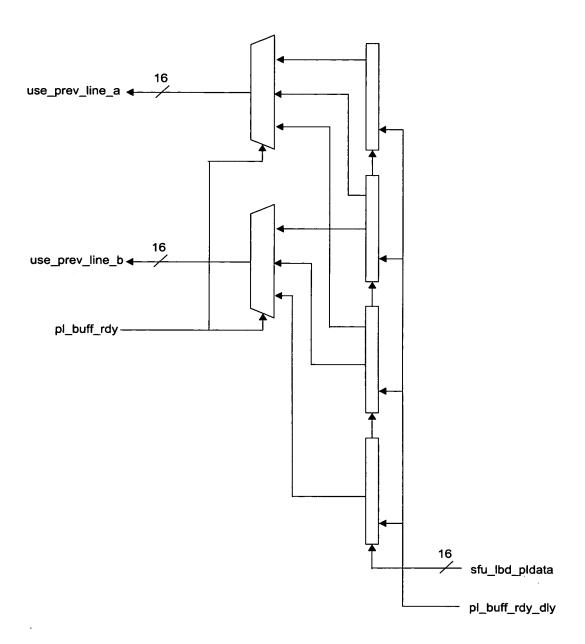


FIG. 153

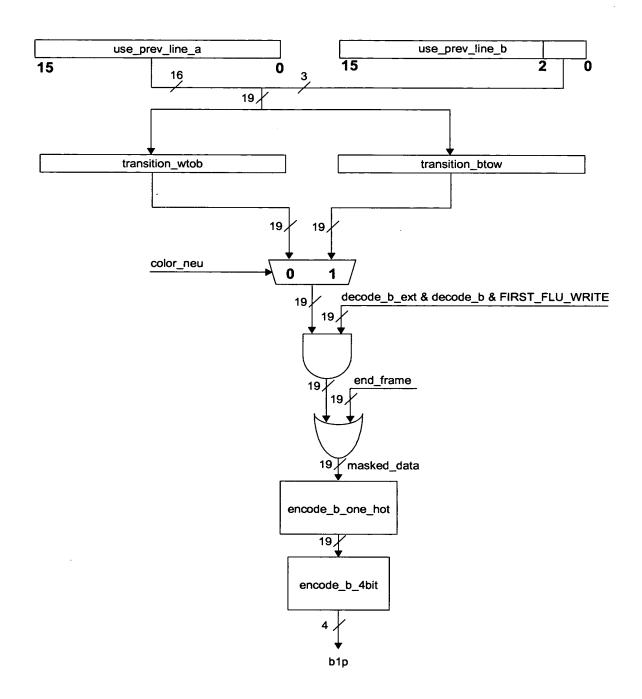


FIG. 154

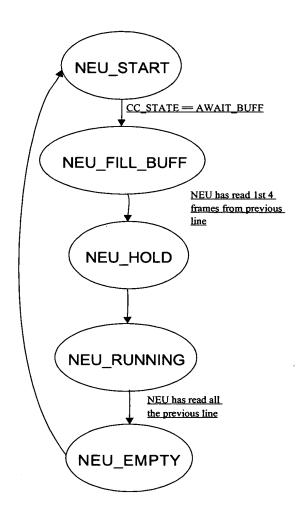


FIG. 155

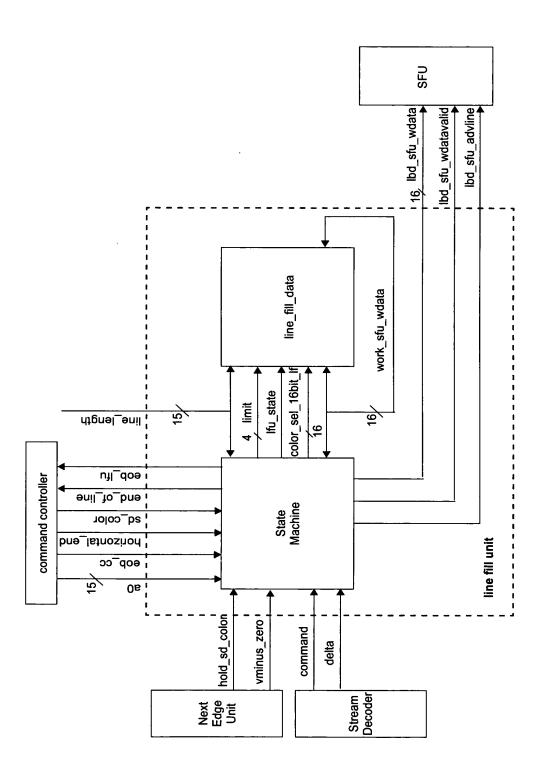


FIG. 156

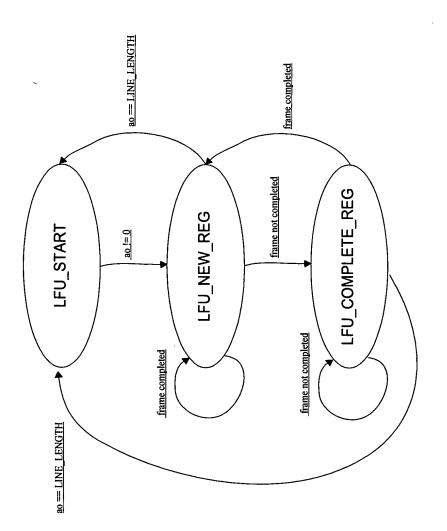
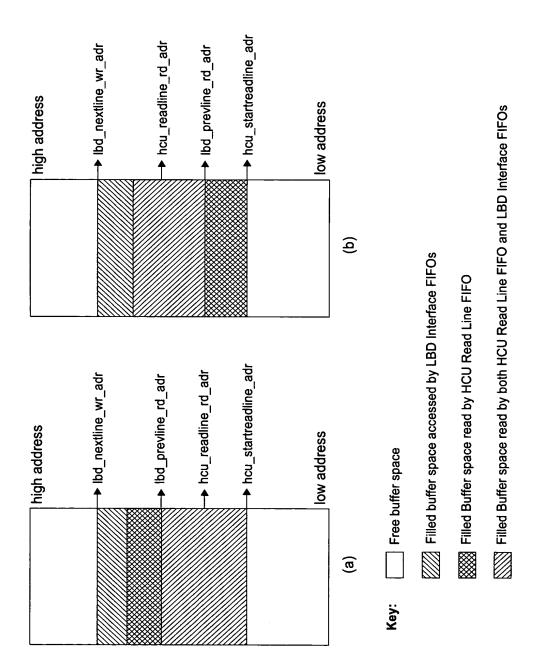


FIG. 157



F1G. 158

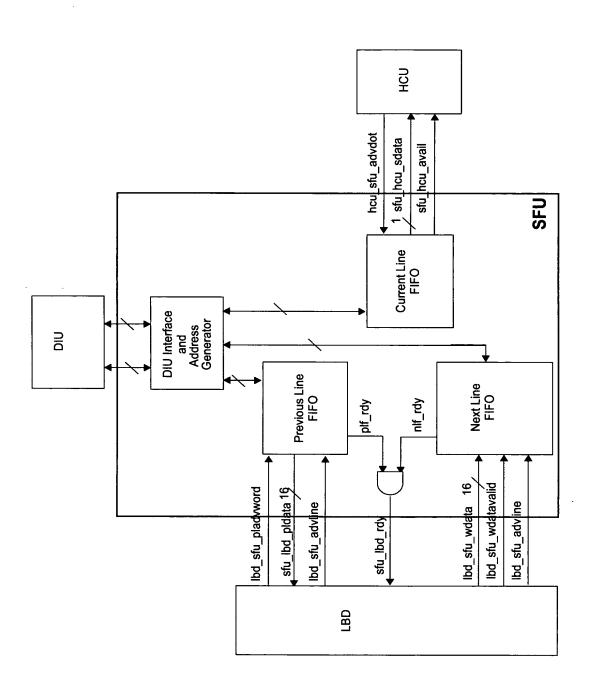


FIG. 159

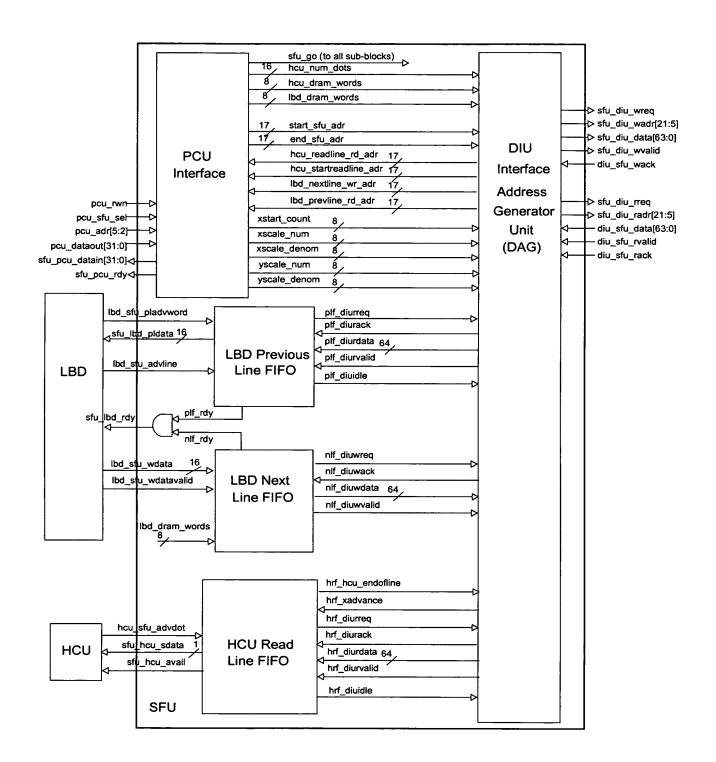


FIG. 160

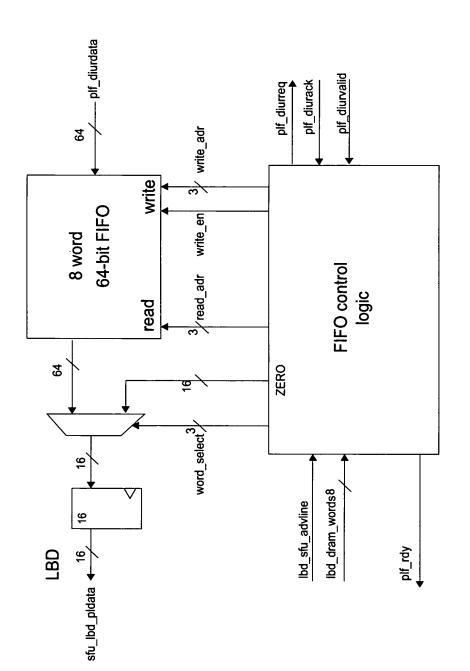


FIG. 161

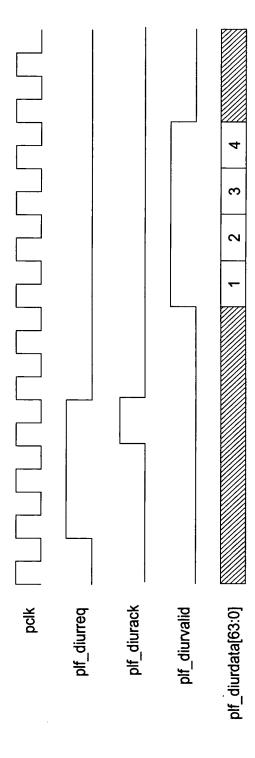


FIG. 162

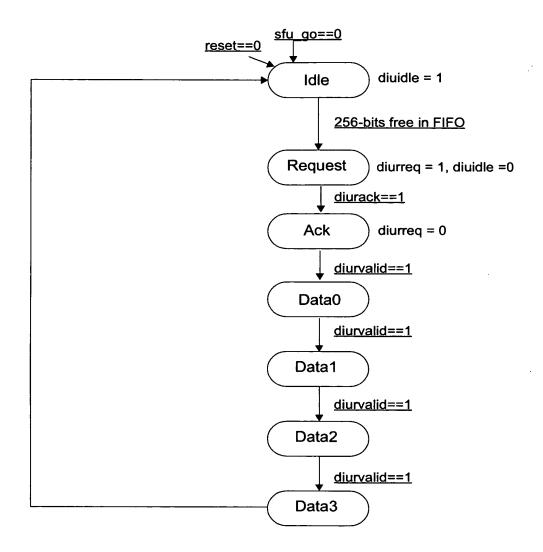


FIG. 163

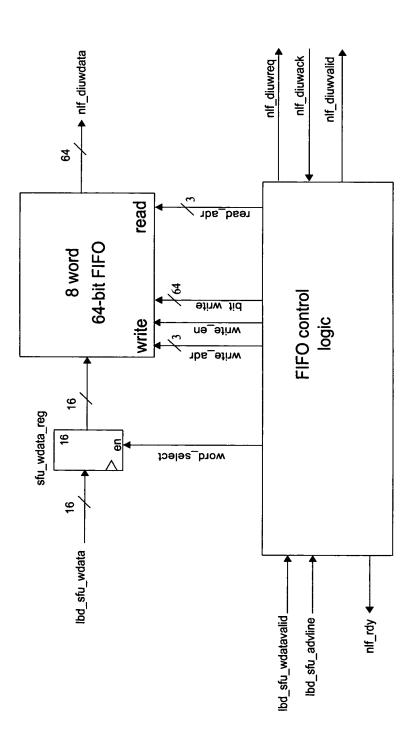
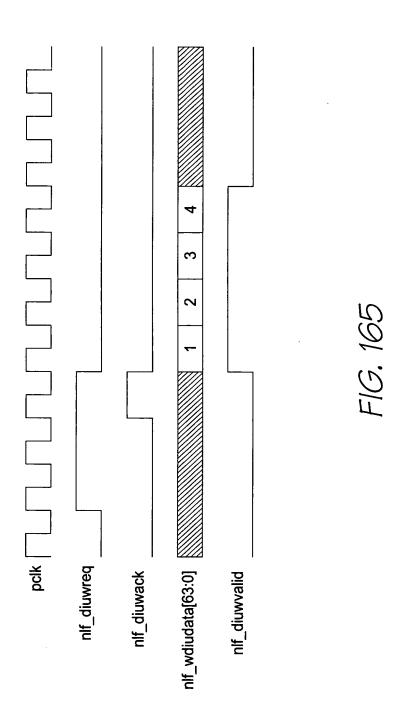


FIG. 164



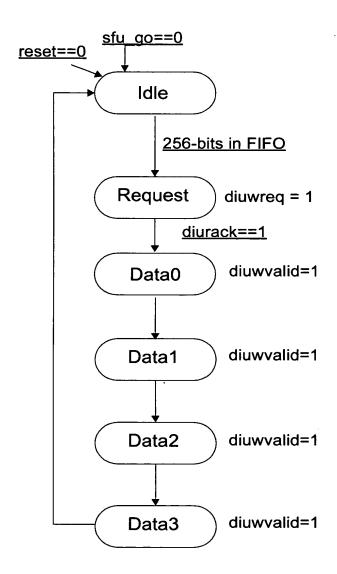


FIG. 166

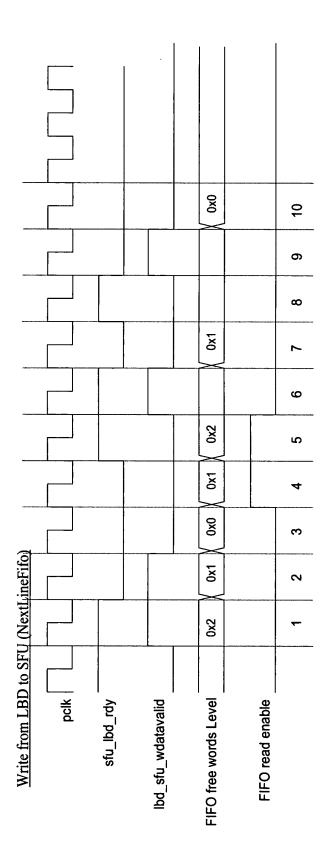


FIG. 167

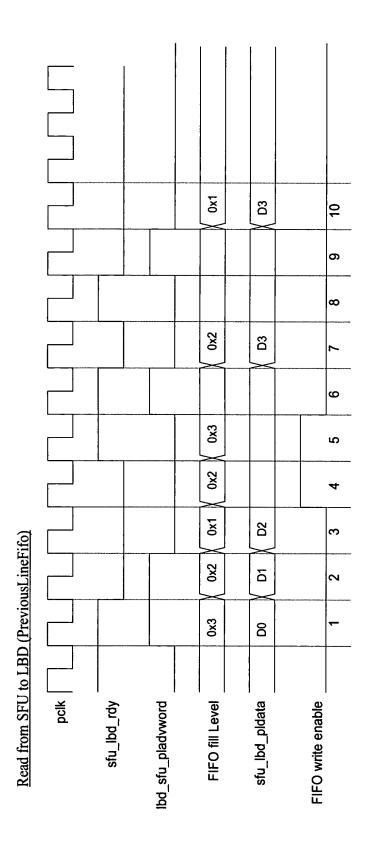


FIG. 168

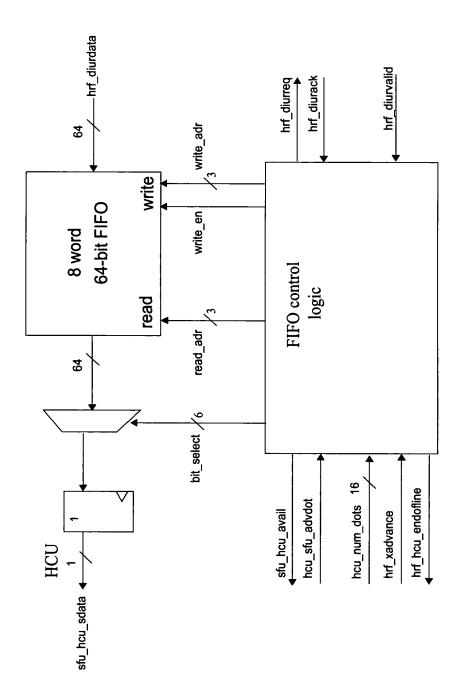


FIG. 169

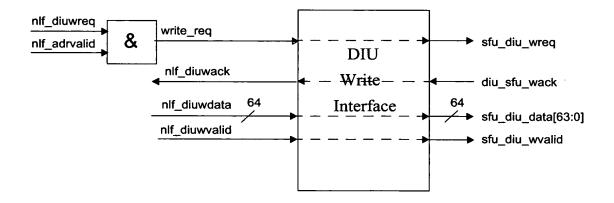


FIG. 170

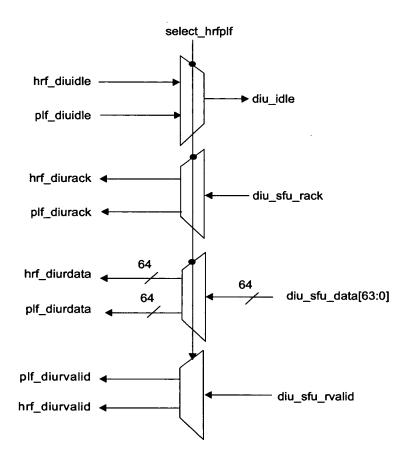


FIG. 171

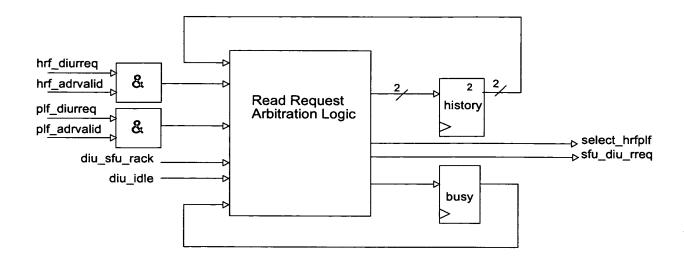


FIG. 172

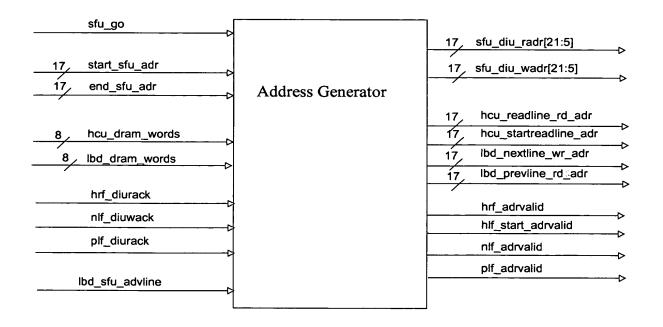


FIG. 173

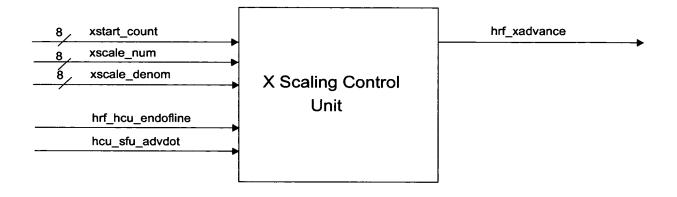


FIG. 174

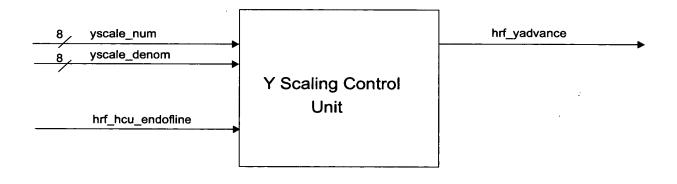


FIG. 175

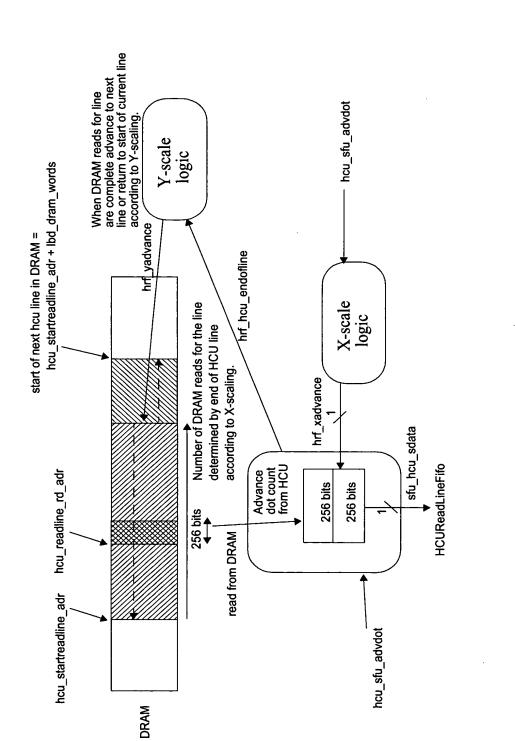


FIG. 176

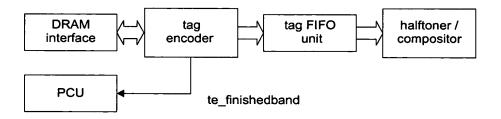


FIG. 177

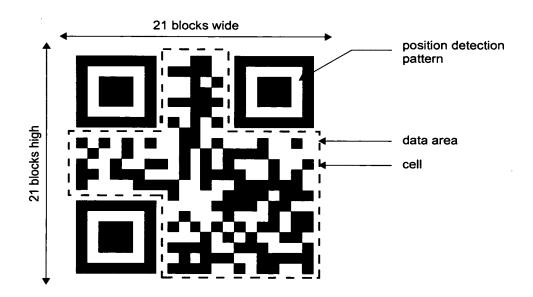
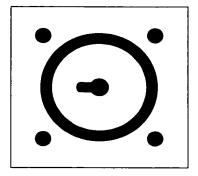
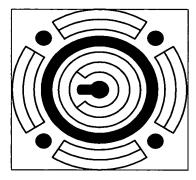


FIG. 178



(a) Netpage tag background pattern



(b) Netpage tag showing data area

FIG. 179

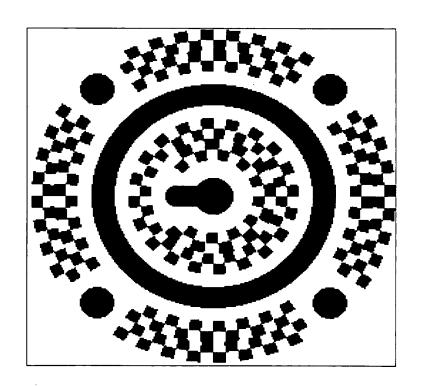


FIG. 180

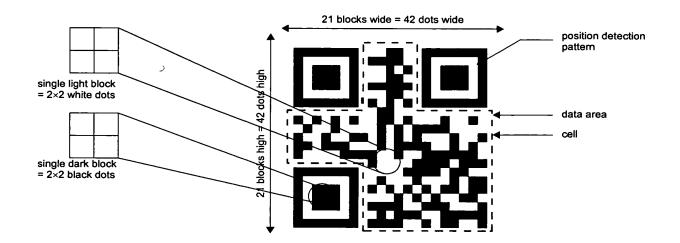


FIG. 181

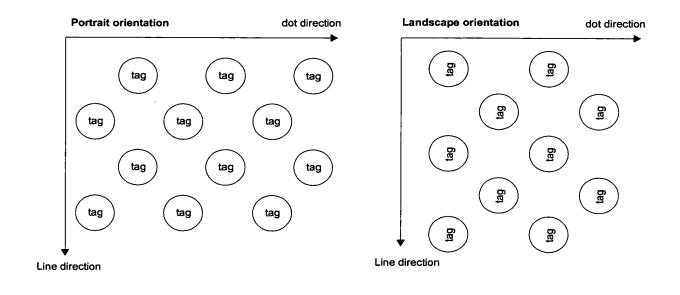


FIG. 182

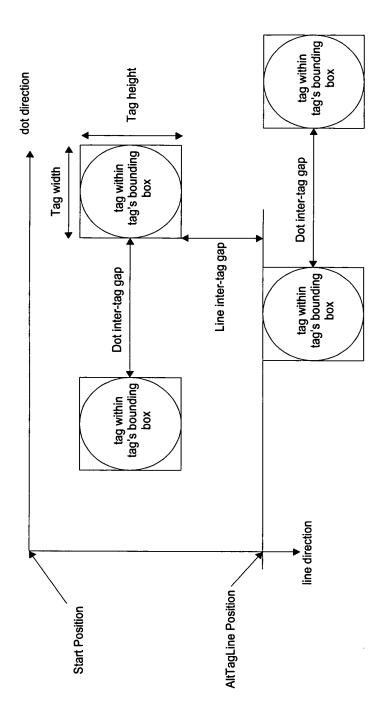
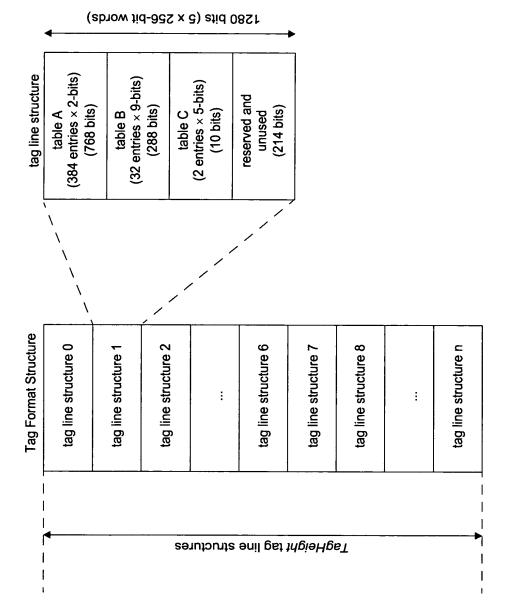
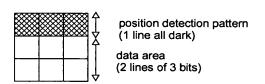


FIG. 183





always 1	always 1	always 1
(background)	(background)	(background)
data	data	data
bit 0	bit 1	bit 2
data	data	data
bit 4	bit 5	bit 3

# FIG. 185

#### Legend

	_	
		constant 0
		constant 1
	ьо	data bit 0
	b1	data bit 1
	b2	data bit 2
	b3	data bit 3
I	b4	data bit 4
ľ	b5	data bit 5

				<b>***</b>				<b>***</b>	<b>***</b>	<b>***</b>	<b>***</b>	<b>***</b>			<b>***</b>	<b>***</b>	<b>***</b>	<b>***</b>	<b>***</b>	
															▓			▓		
		$\boxtimes$	₩	$\boxtimes$	$\boxtimes$		₩		₩		₩	▓	$\boxtimes$							
		₩	₩		₩	₩		₩	₩	₩	₩	₩	₩	₩	₩	₩	₩	₩	₩	₩
	₩	₩	₩	₩	₩	₩	₩	₩	₩	₩		₩	₩	₩		₩	₩	₩		₩
	₩		₩	₩	₩	₩	<b>***</b>	₩		₩	₩	₩	₩	$\bowtie$		₩	₩	₩		
L_	₩	₩	₩	₩	₩			₩	₩	₩	₩	₩			₩	$\bowtie$	₩	₩	$\bowtie$	
Ĺ	ьо	ьо	ьо	b0	ь0			b1	b1	b1	b1	<b>b</b> 1			b2	b2	b2	b2	b2	
ьо	ьо	ьо	ьо	ьо	ьо	ьо	b1	b1	b1	ъ1	b1	b1	ь1	b2	b2	b2	b2	b2	b2	b2
b0	ьо	ь0	ьо	ьо	ьо	ьо	b1	b1	b1	ь1	b1	<b>b</b> 1	b1	b2	b2	b2	b2	b2	b2	b2
ьо	ьо	ьо	ьо	b0	ьо	ь0	<b>b</b> 1	b1	b1	ь1	b1	<b>b</b> 1	b1	b2	b2	b2	b2	b2	b2	b2
ьо	ьо	ьо	ьо	ьо	ьо	ьо	b1	b1	b1	b1	b1	b1	ь1	b2	b2	b2	b2	b2	b2	b2
ьо	ьо	ь0	ьо	ьо	ьо	ьо	b1	b1	b1	b1	<b>b</b> 1	b1	b1	b2	b2	b2	b2	b2	b2	b2
	ьо	ьо	ьо	ьо	ьо			b1	b1	b1	b1	b1			b2	b2	b2	b2	b2	
	b4	b4	<b>b</b> 4	<b>b</b> 4	b4			b5	b5	þ5	b5	b5			b3	b3	b3	b3	ь3	
b4	b4	<b>b</b> 4	b4	b4	b4	b4	b5	b5	b5	b5	b5	<b>b</b> 5	<b>b</b> 5	b3	b3	b3	b3	b3	b3	ь3
b4	b4	b4	b4	b4	b4	b4	b5	<b>b</b> 3	b3	<b>b</b> 3	b3	b3	ь3	ь3						
b4	b4	b4	b4	b4	b4	b4	b5	b5	b5	b5	b5	b5	<b>b</b> 5	b3	b3	b3	b3	b3	ь3	b3
b4	b4	b4	b4	b4	b4	<b>b</b> 4	<b>b</b> 5	b5	b5	<b>b</b> 5	b5	b5	b5	b3	b3	<b>b</b> 3	ь3	ь3	b3	b3
b4	b4	b4	b4	b4	b4	b4	<b>b</b> 5	b5	b5	b5	b5	b5	<b>b</b> 5	b3	b3	b3	b3	ь3	b3	ь3
	b4	b4	b4	b4	b4			b5	b5	b5	b5	<b>b</b> 5			b3	b3	b3	b3	b3	

FIG. 186

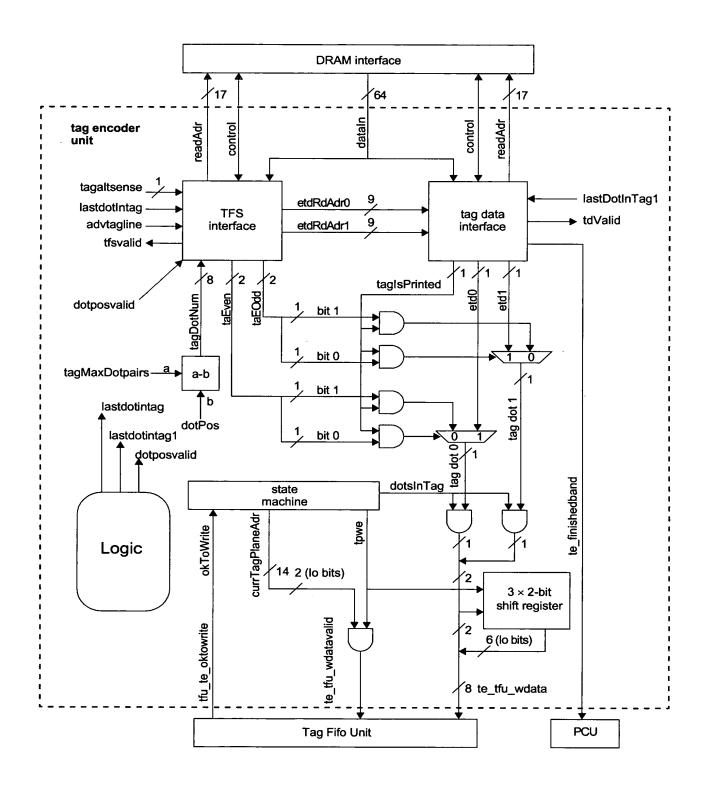


FIG. 187

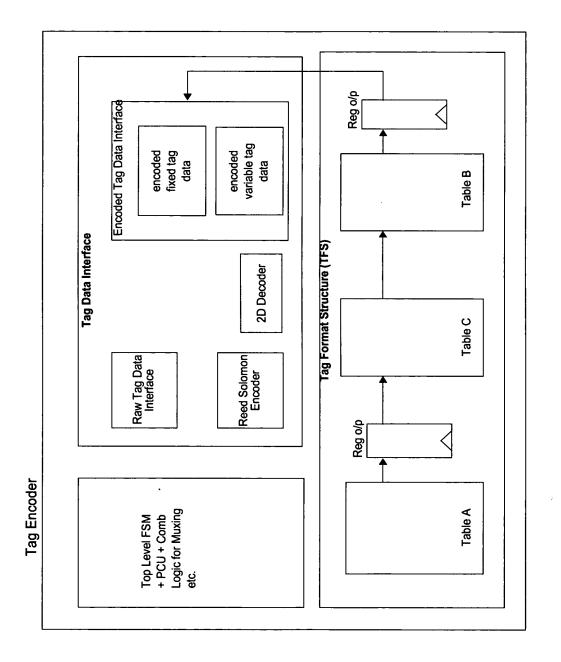


FIG. 188

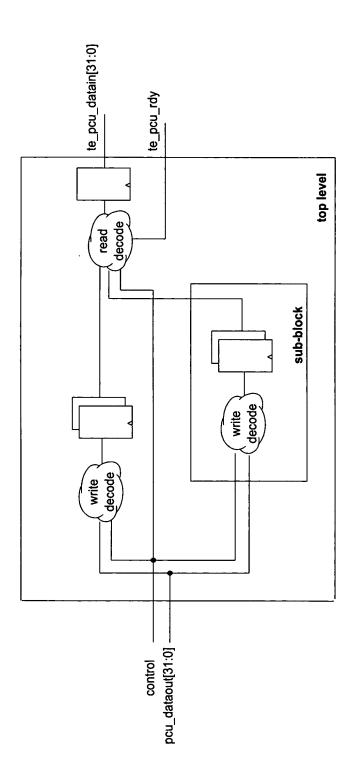


FIG. 189

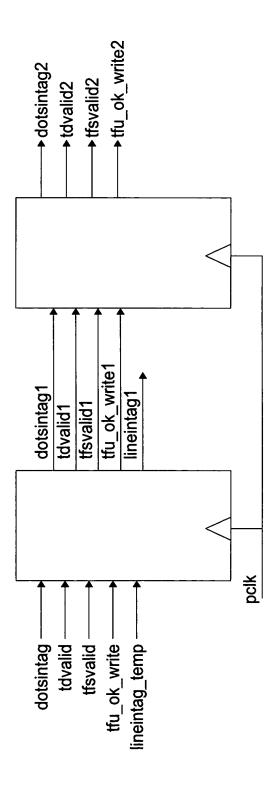


FIG. 191

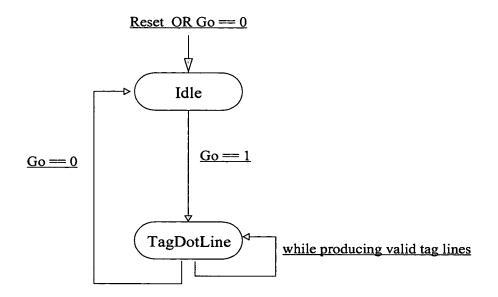


FIG. 190

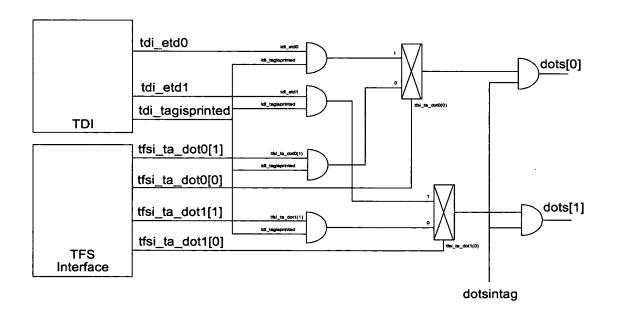


FIG. 192

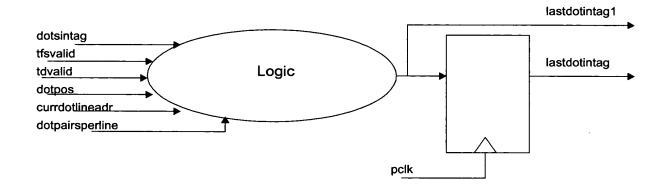


FIG. 193

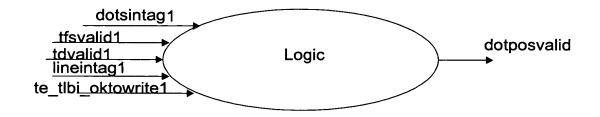


FIG. 194

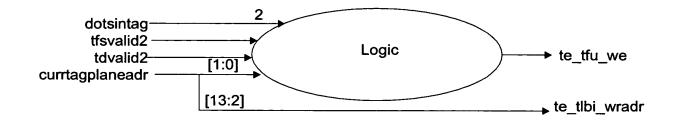


FIG. 195

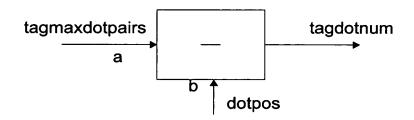


FIG. 196

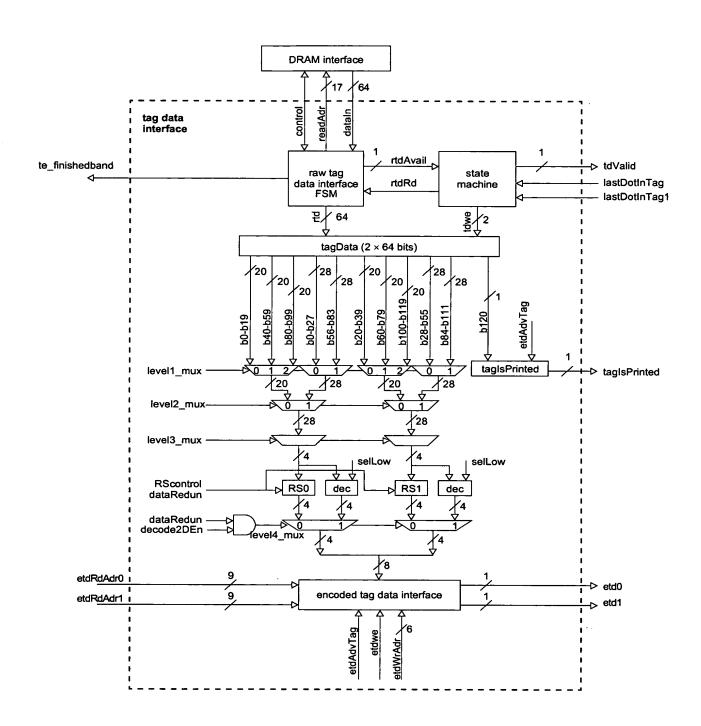


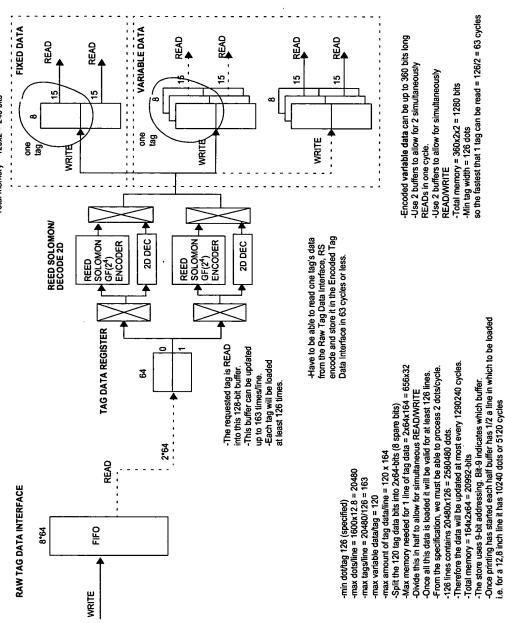
FIG. 197

# **ENCODED TAG DATA INTERFACE**

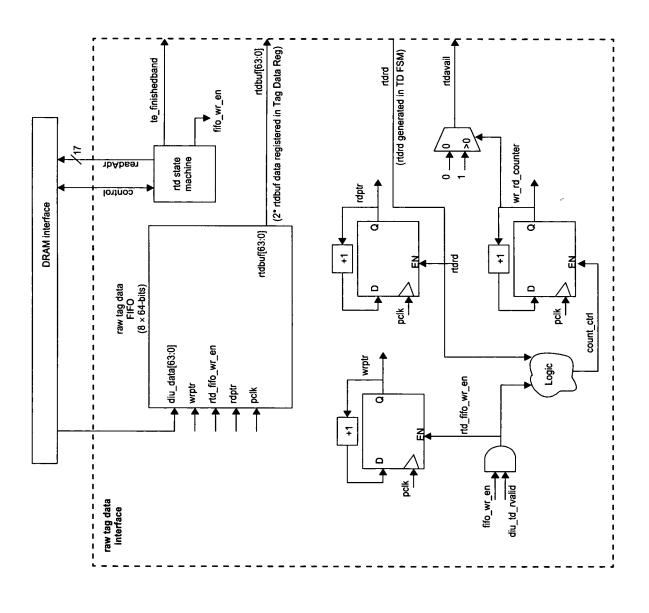
-Encoded fixed data can be up to 120 bits long -Use 2 buffers to allow for 2 simultaneously

READs in one cycle.

-These stores hold the fixed tag data for 1 tag. -Total memory = 120x2 = 240 bits



for an 8 inch line it has 6400 dots or 3200 cycles



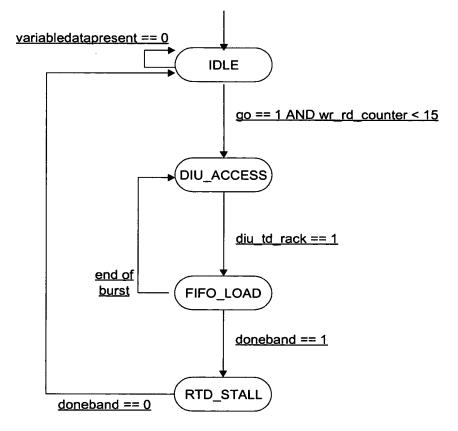


FIG. 200

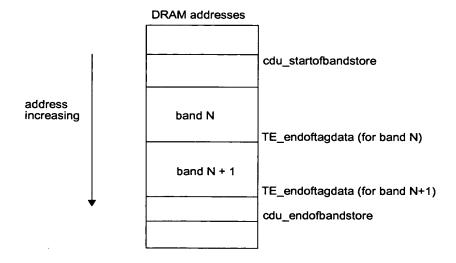
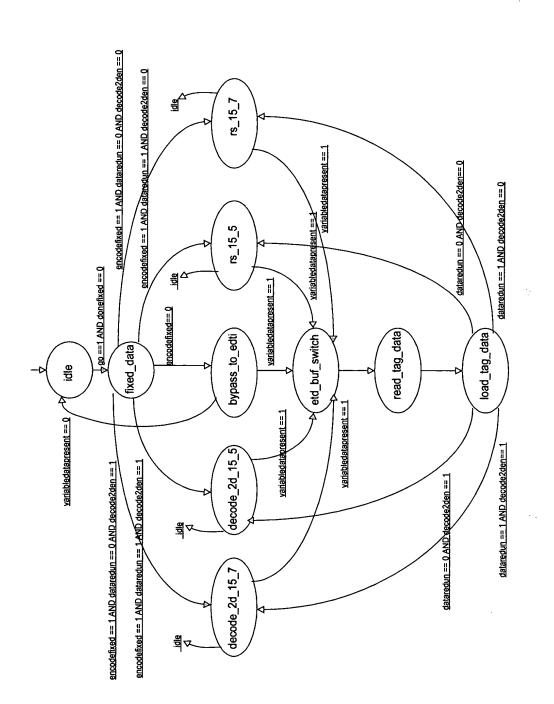


FIG. 201



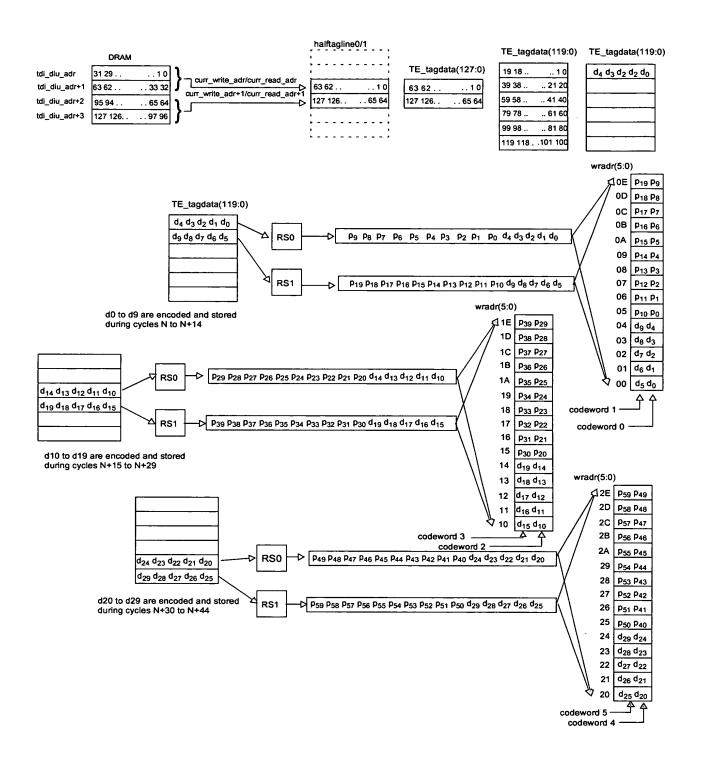


FIG. 203

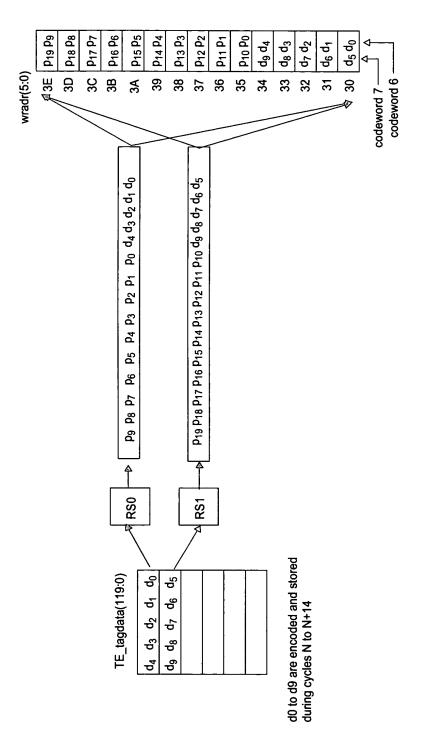


FIG. 204

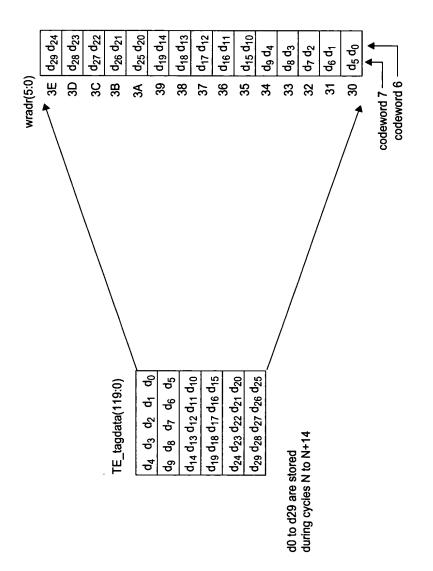


FIG. 205

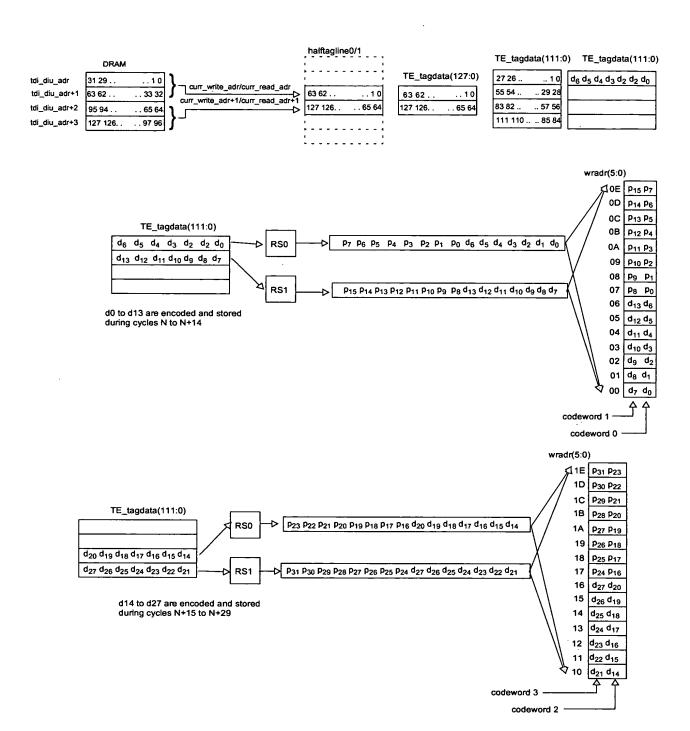


FIG. 206

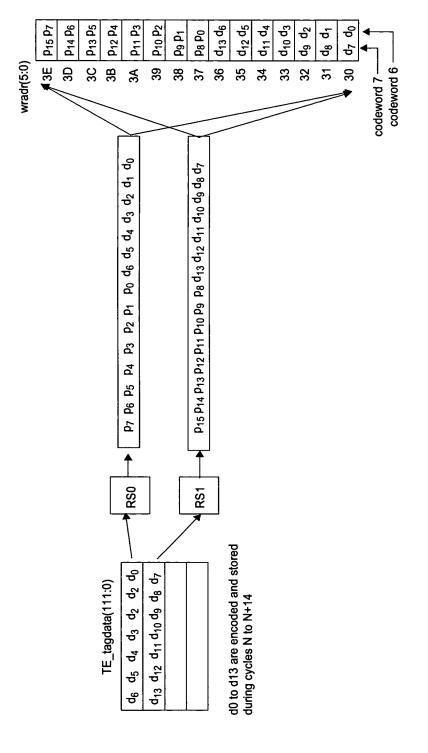


FIG. 207

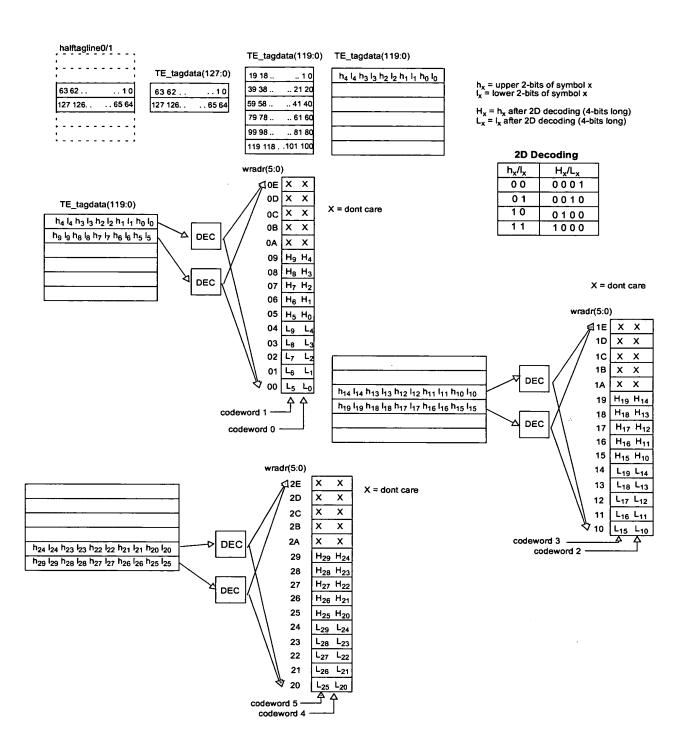
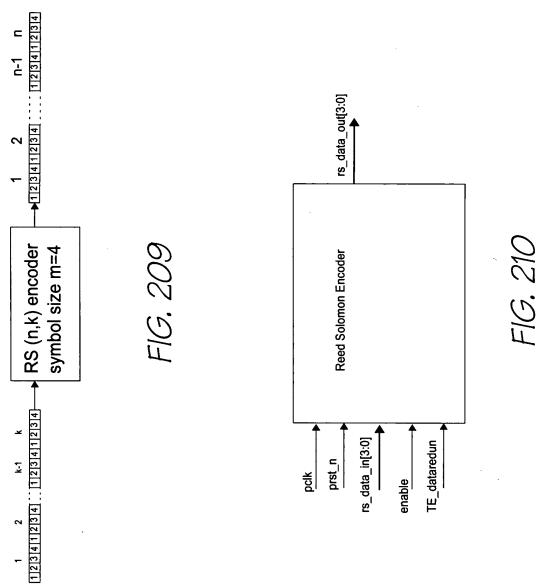


FIG. 208



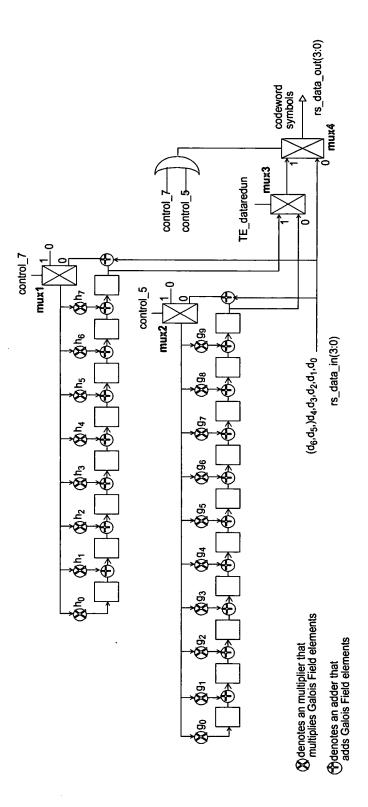


FIG. 21

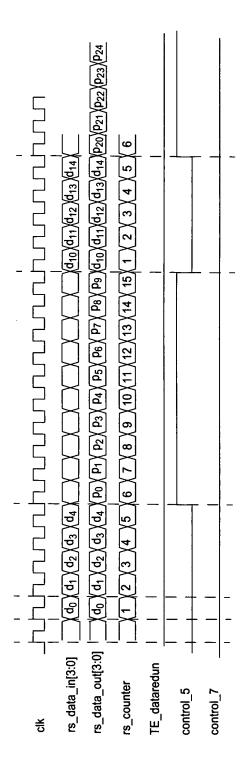


FIG. 212

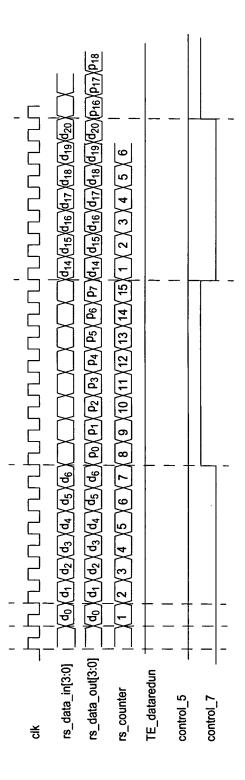
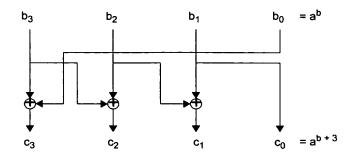
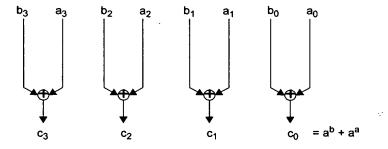


FIG. 213



exclusive OR gate

FIG. 214



exclusive OR gate

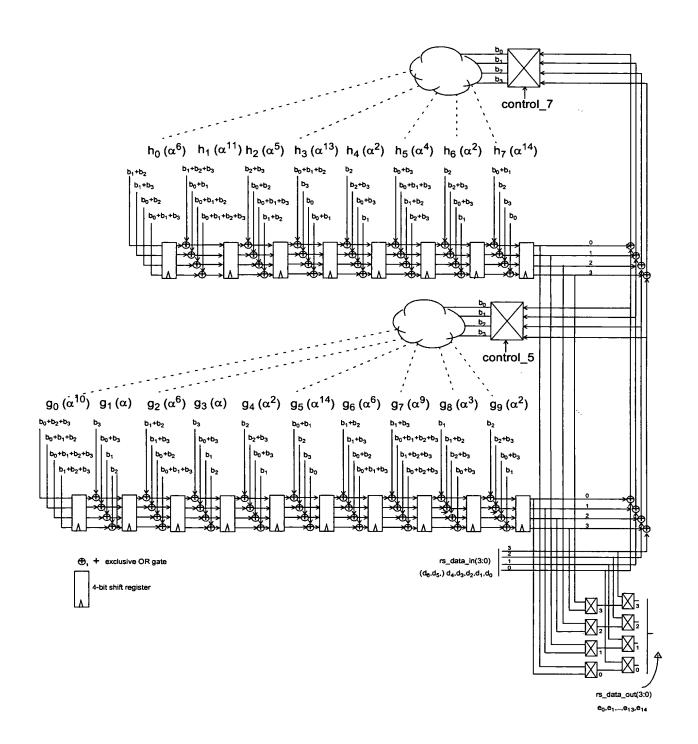


FIG. 216

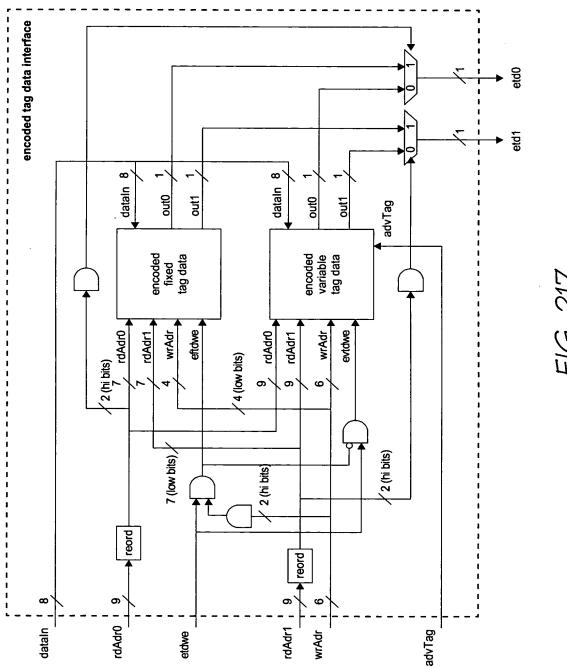


FIG. 217

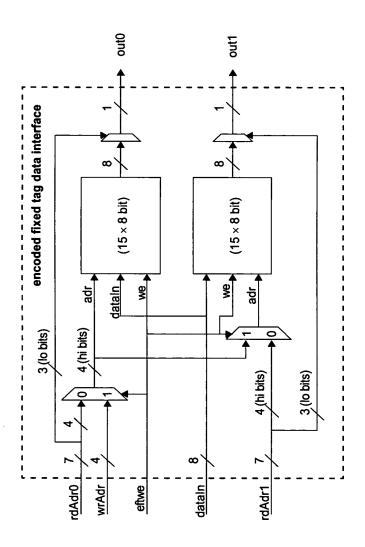


FIG. 218

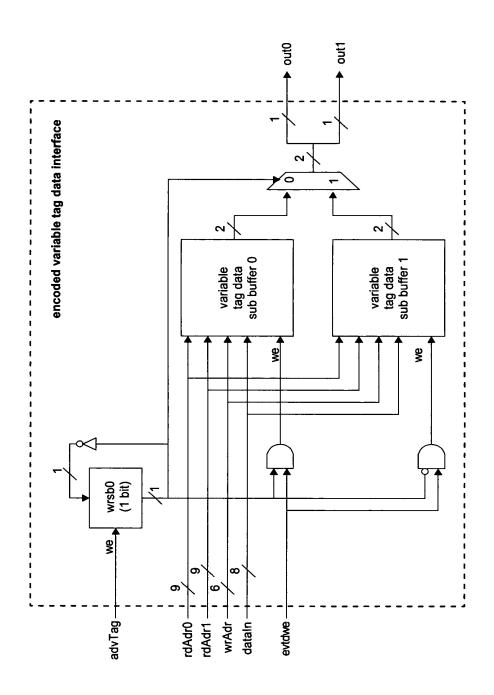


FIG. 219

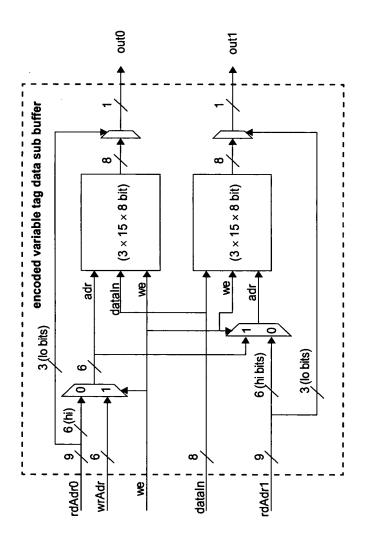


FIG. 220

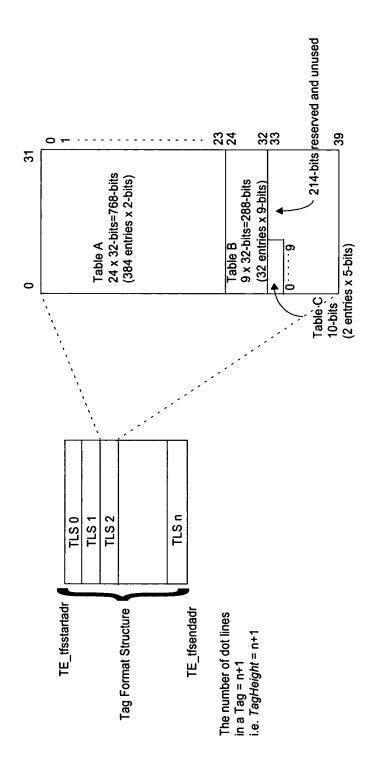


FIG. 221

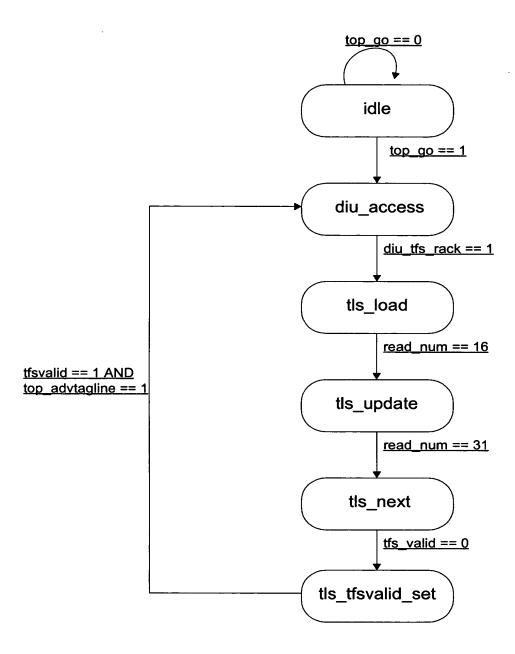


FIG. 222

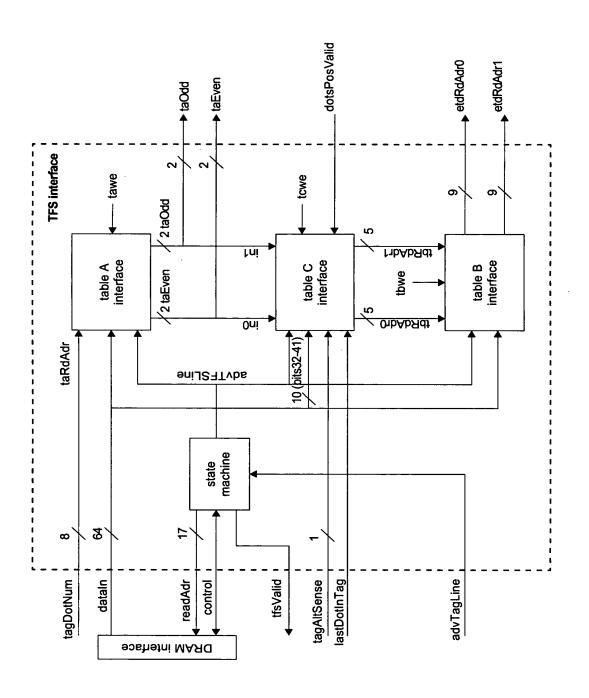


FIG. 223

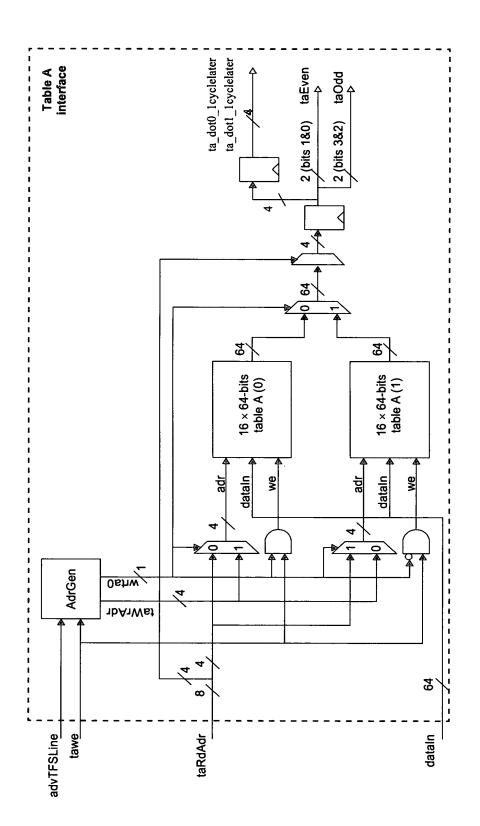


FIG. 224

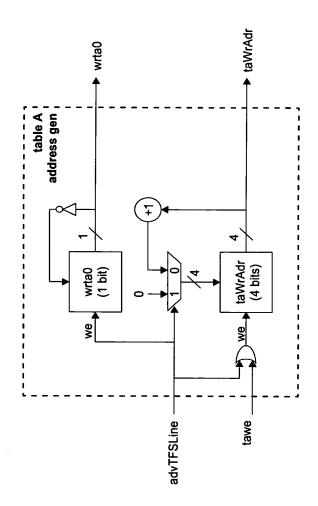


FIG. 225

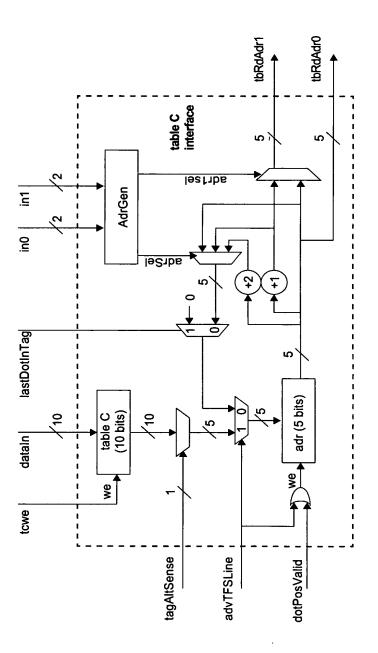


FIG. 226

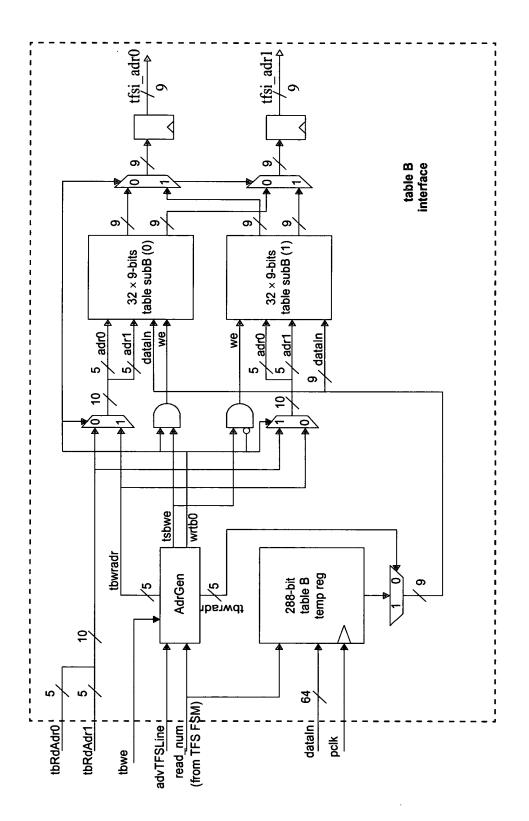
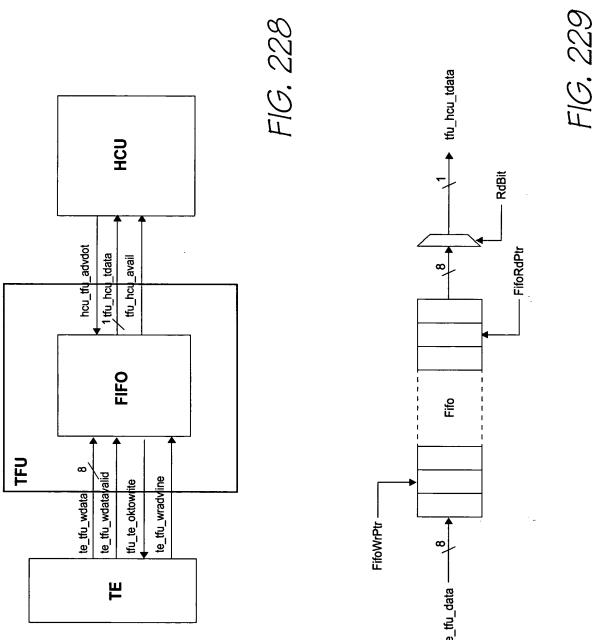


FIG. 227



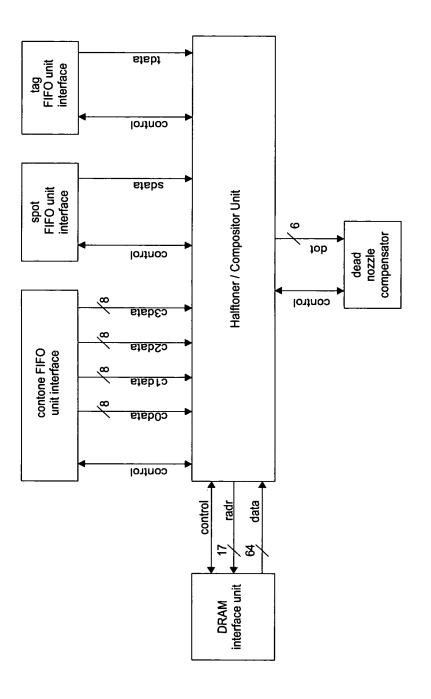


FIG. 230

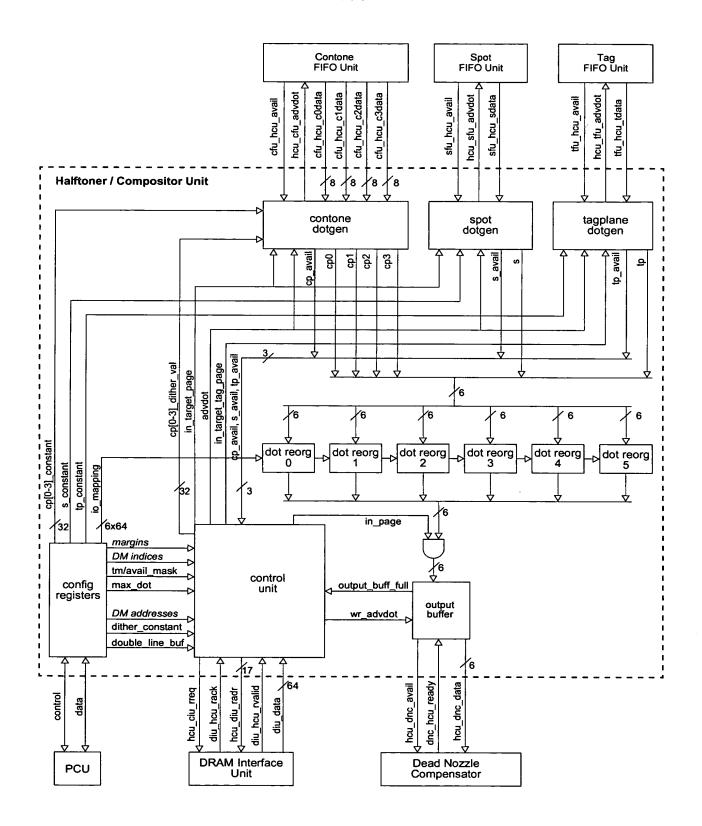
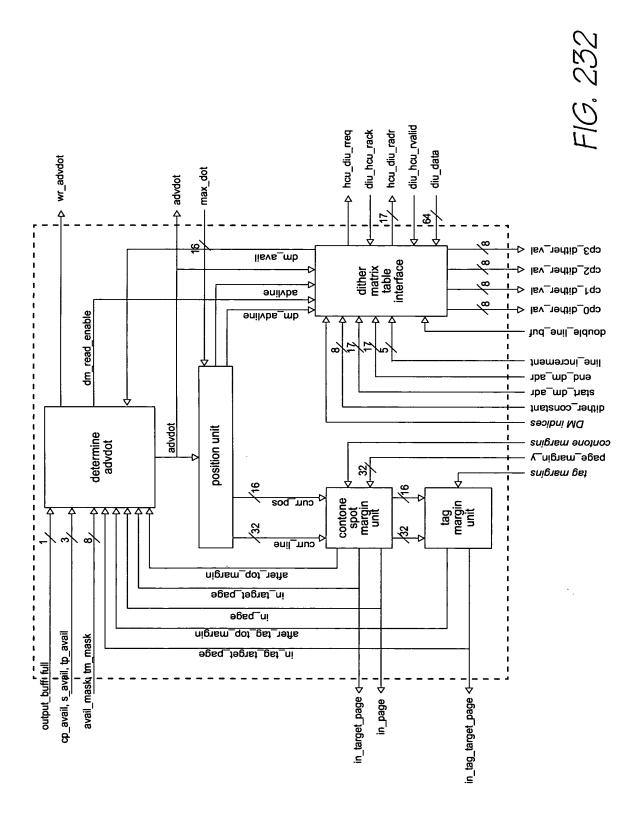
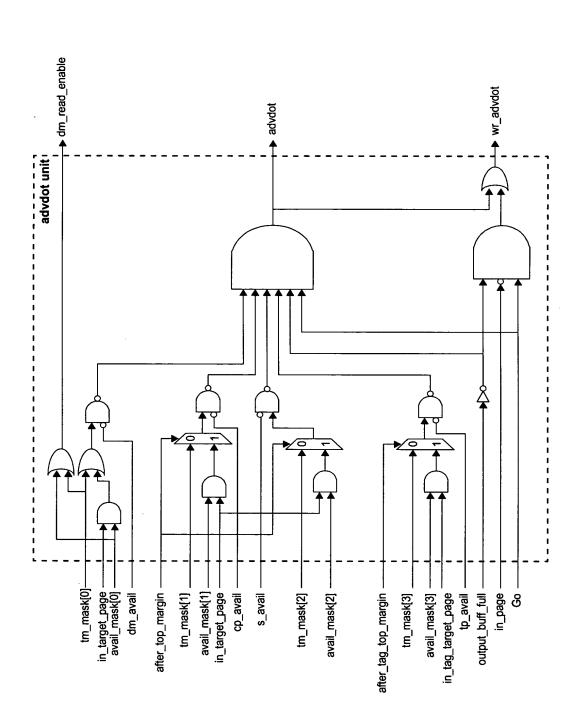


FIG. 231







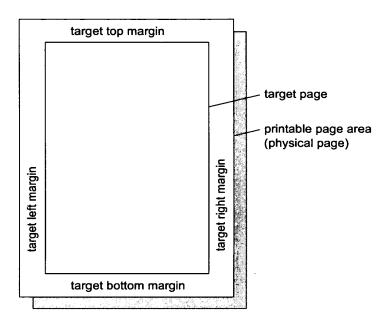


FIG. 234

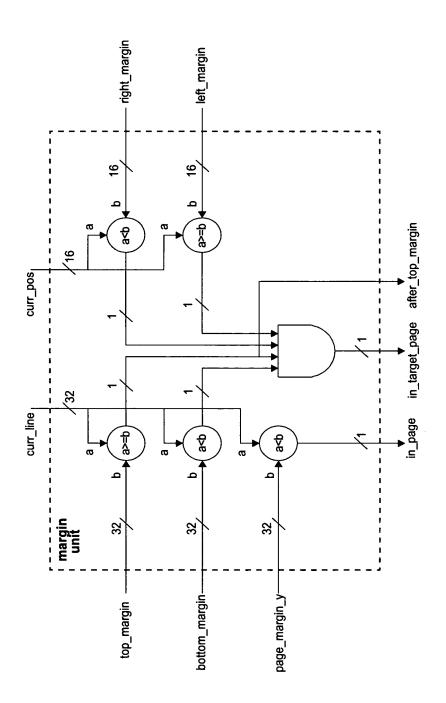
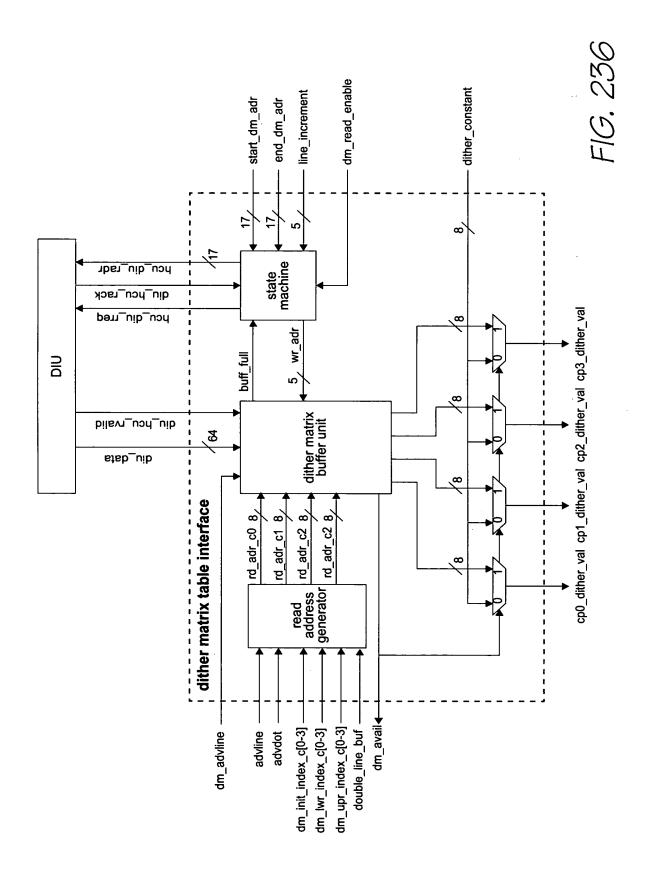


FIG. 235



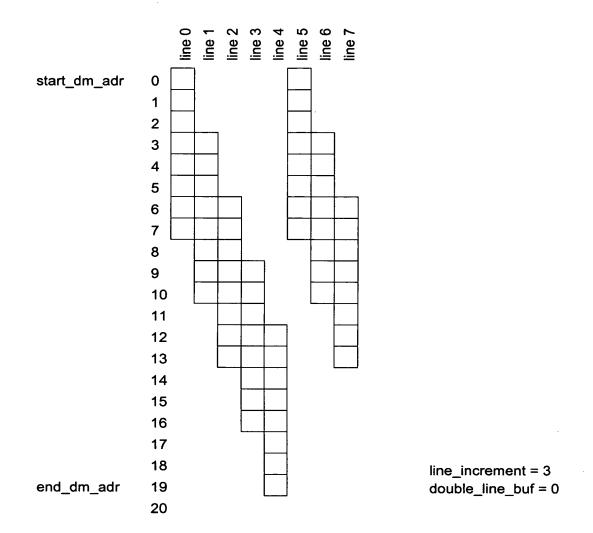


FIG. 237

## 204/331

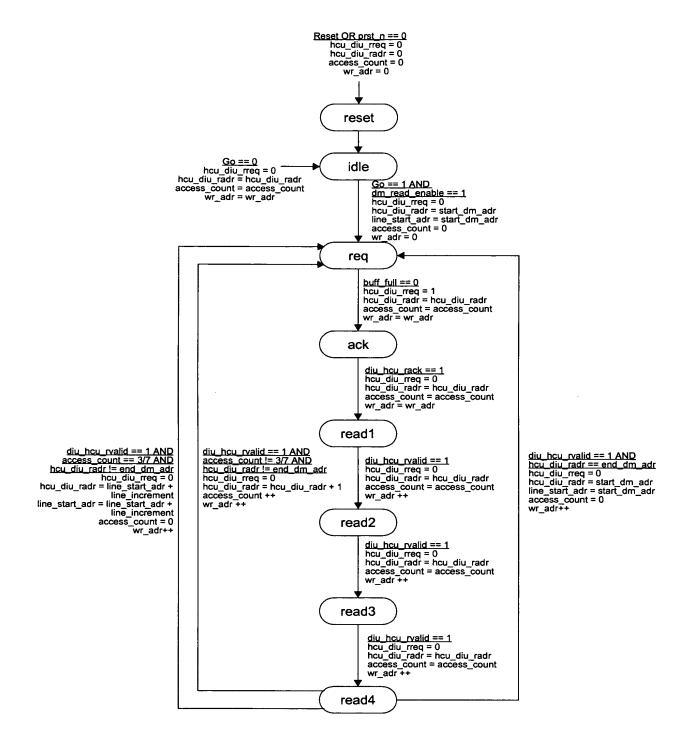
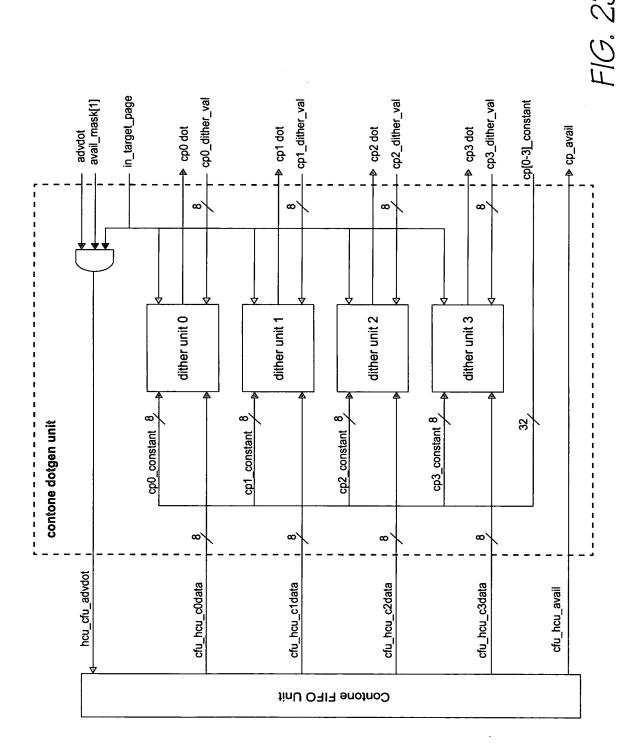


FIG. 238



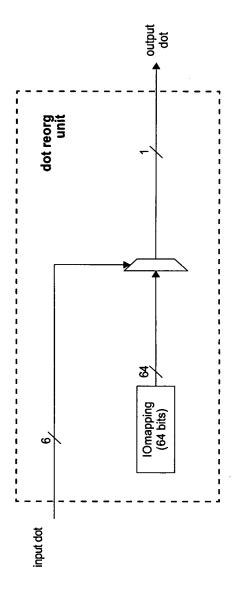
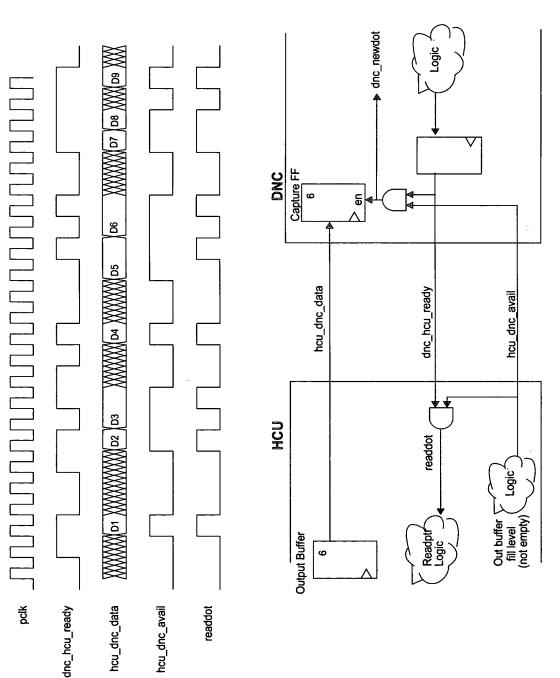


FIG. 240





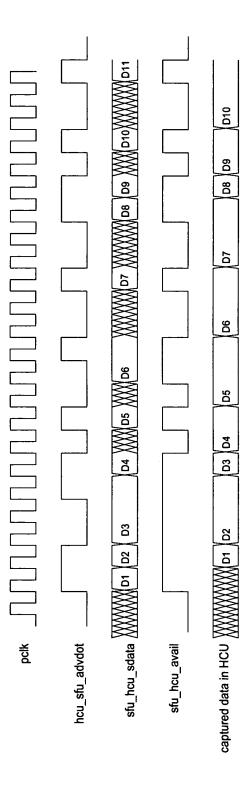


FIG. 242

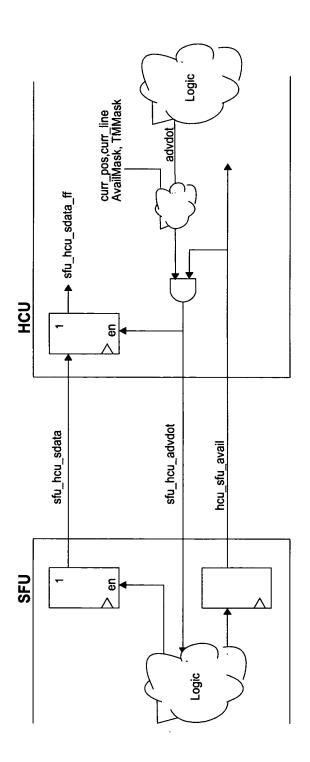


FIG. 243

## 210/331

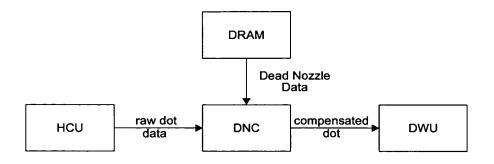


FIG. 244

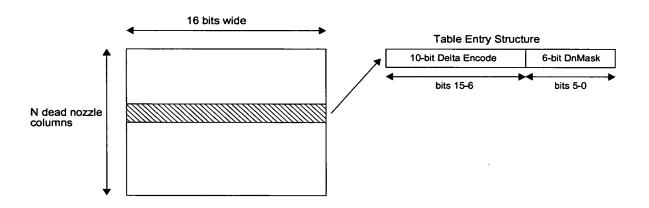


FIG. 245

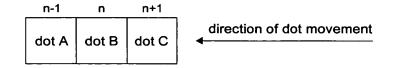


FIG. 246

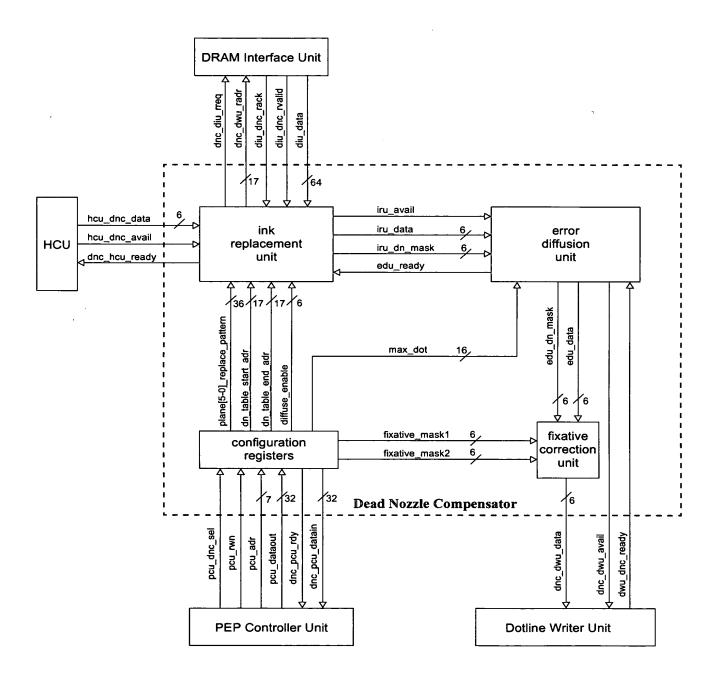


FIG. 247

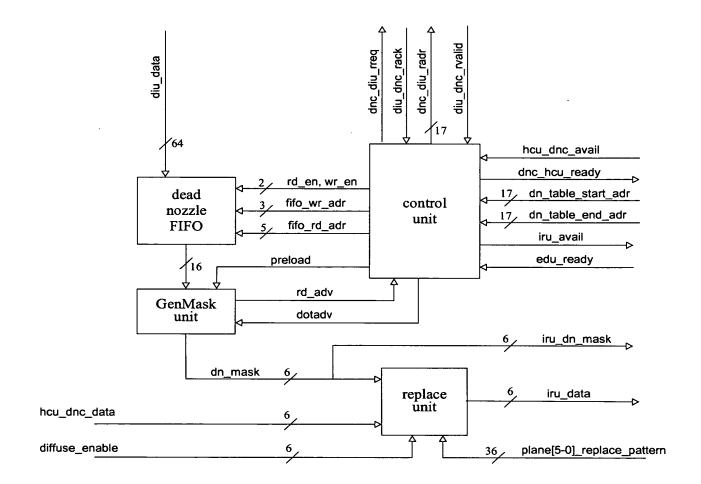


FIG. 248

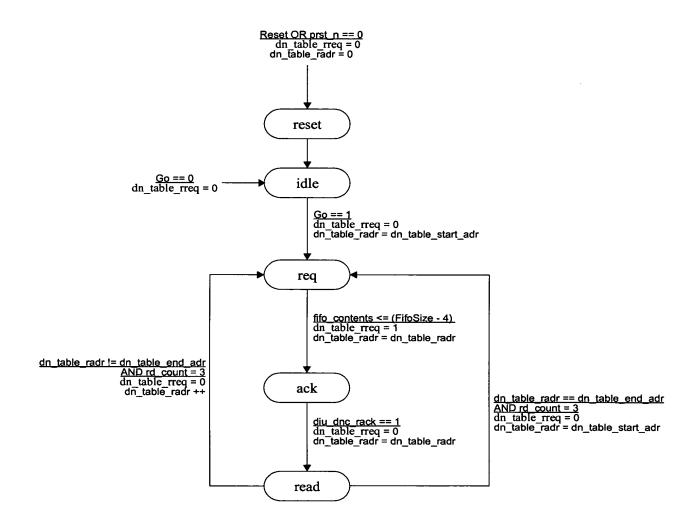


FIG. 249

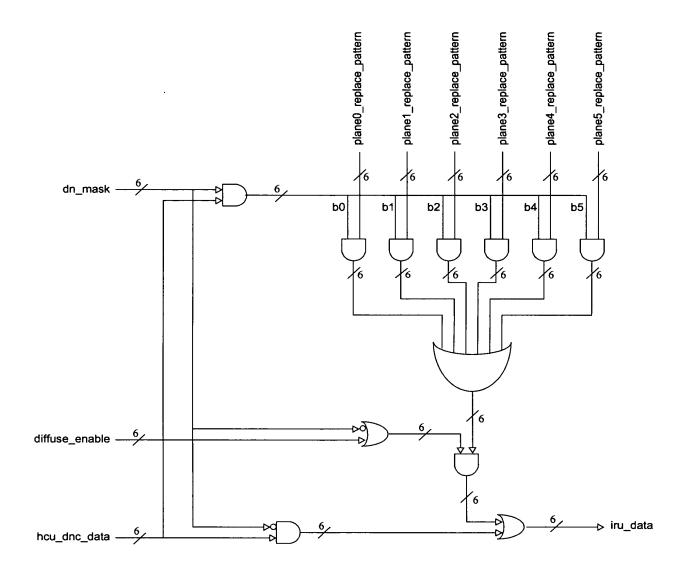


FIG. 250

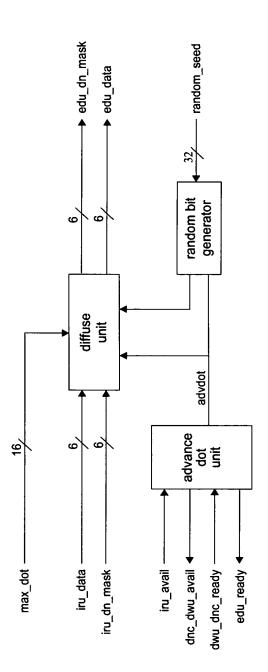
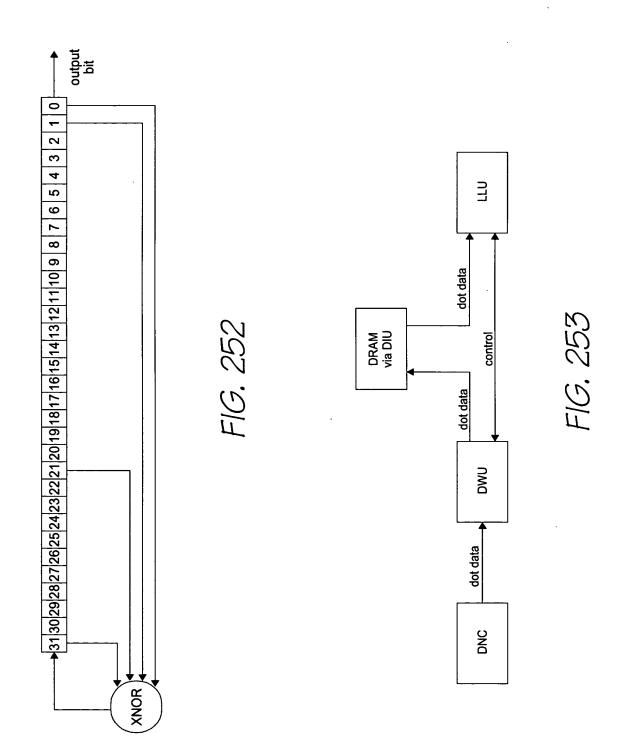
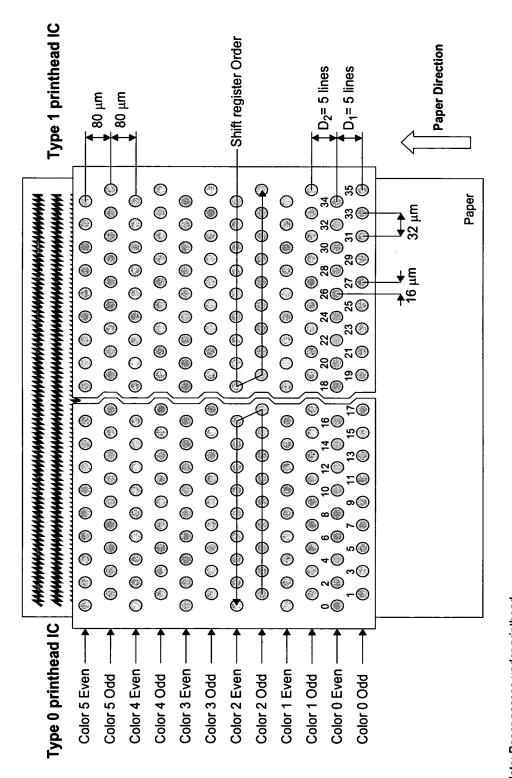


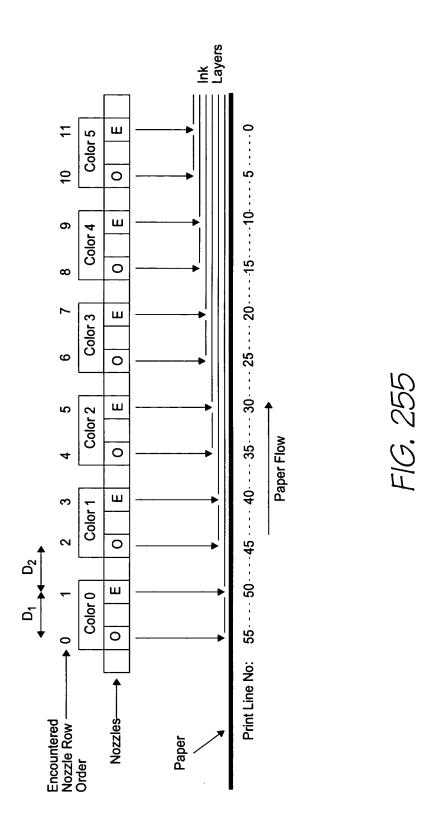
FIG. 251

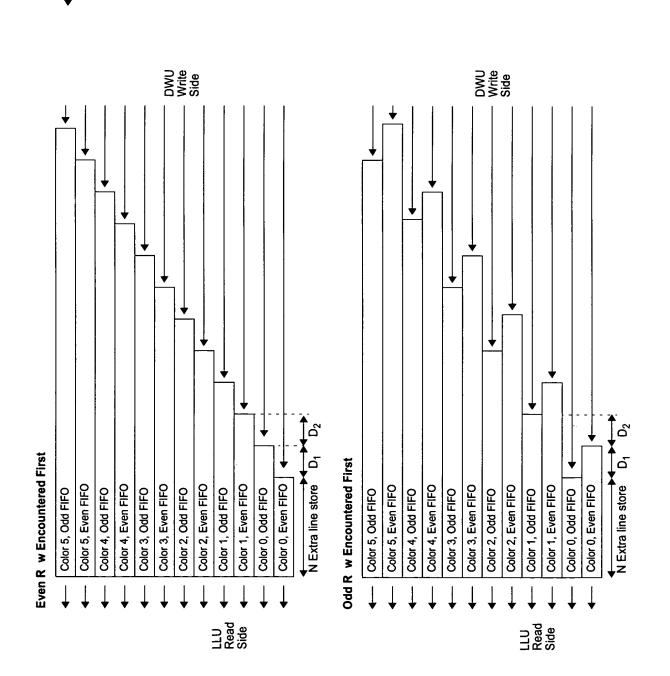


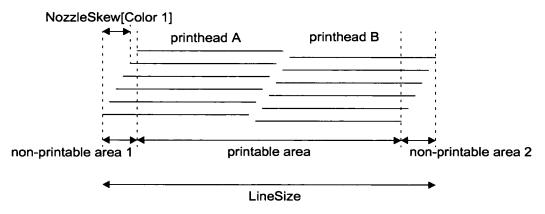


Note: Paper passes under printhead

FIG. 254







non-printable area 1 = inverted non-printable area 2

FIG. 257

printhead A	printhead B

FIG. 258

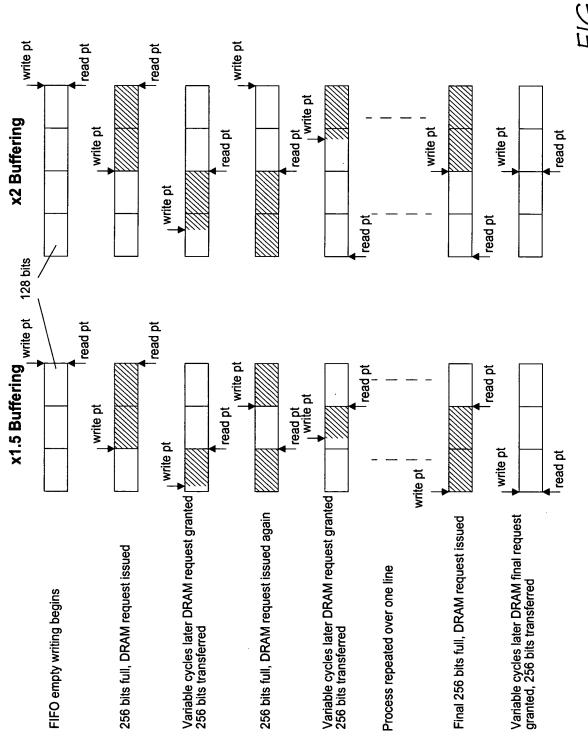


FIG. 259

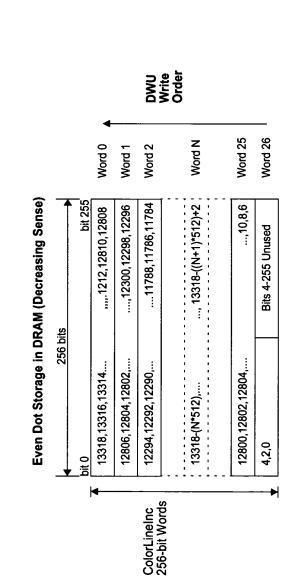


FIG. 260

Word 25 Word 26

...,13306,13308,13310

Bits 4-255 Unused

13312,13314,13316,13318

12800, 12802, 12804,....

DWU Write Order

Word 1 Word 2

1024,1026,1028,1030.....

ColorLineInc 256-bit Words

512,514,516,518...

0,2,4,6....

Word 0

.....502,504,508,510 .....1016,1018,1020,1022 .....1528,1530,1532,1534

bit 255

Even Dot Storage in DRAM (Increasing Sense)

256 bits

Word N

(N+1)\*512 - 2

N\*512

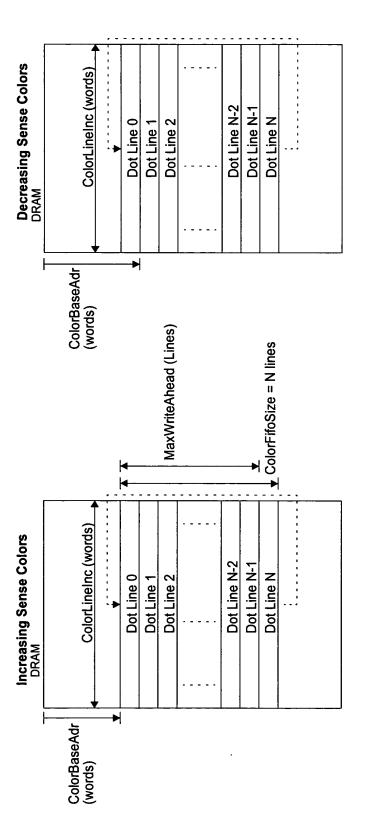


FIG. 262

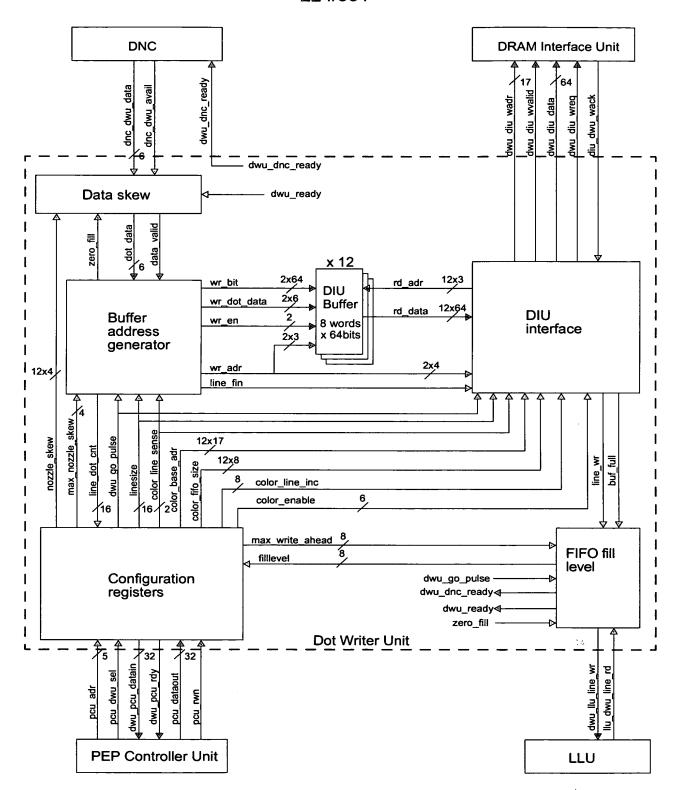


FIG. 263

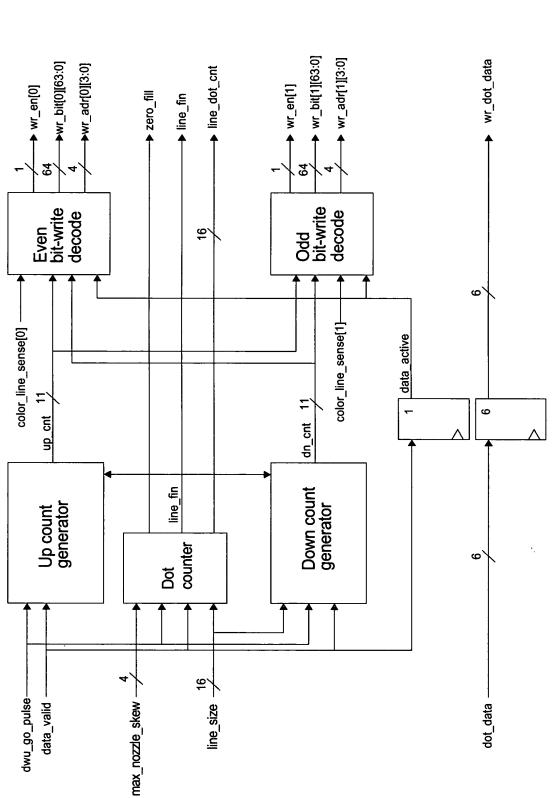
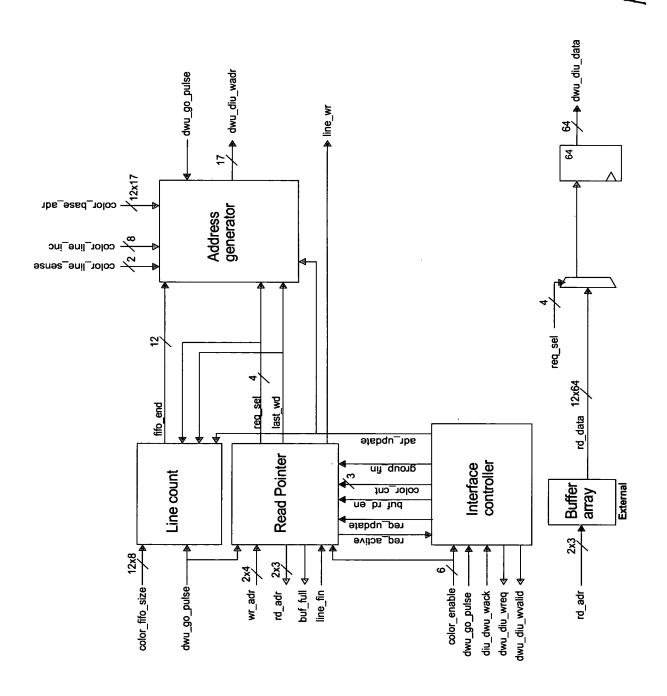
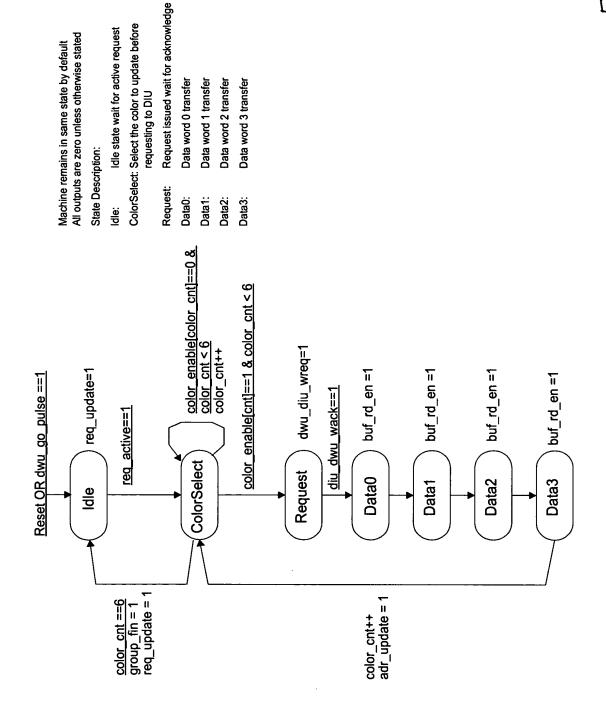
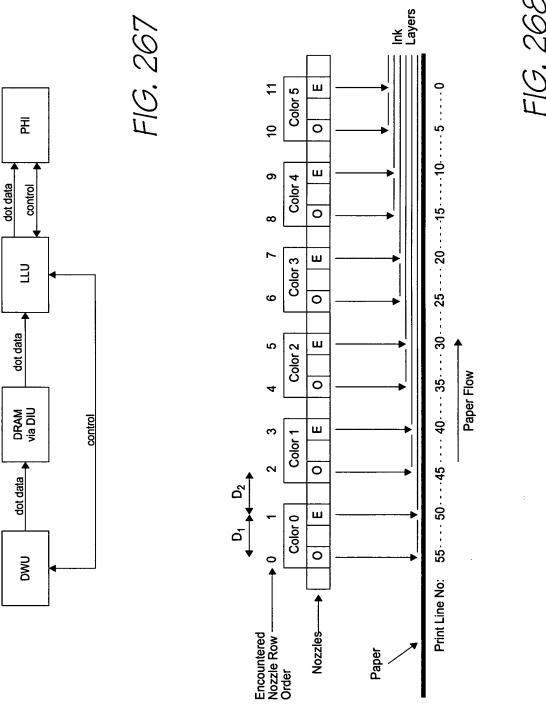
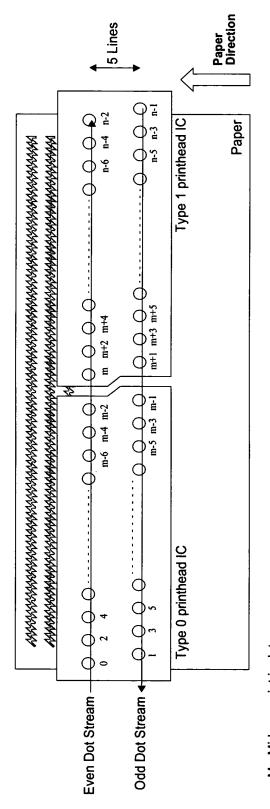


FIG. 264









M - Midway point in dots N - Number of dots in a line

Note: Paper passing under printhead

FIG. 269

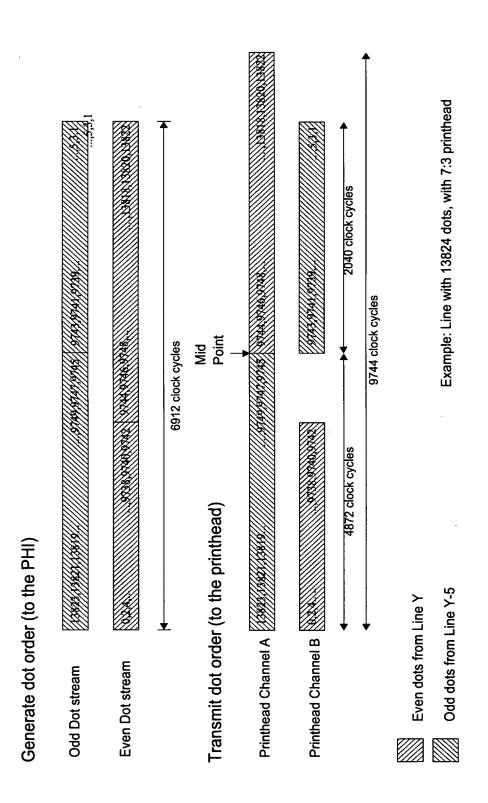


FIG. 270

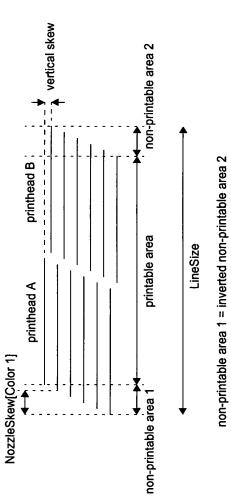


FIG. 271

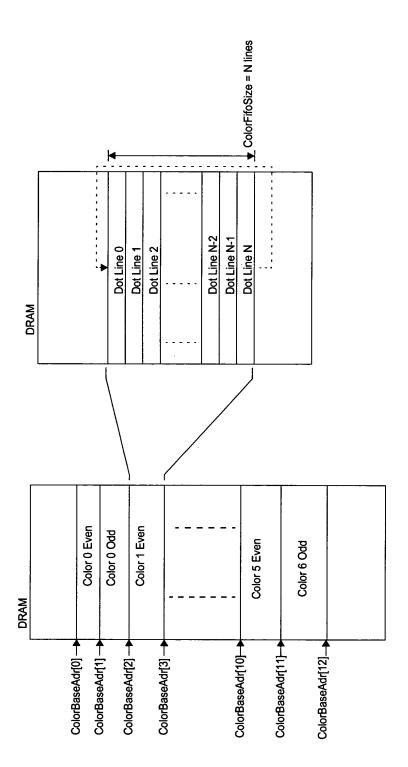
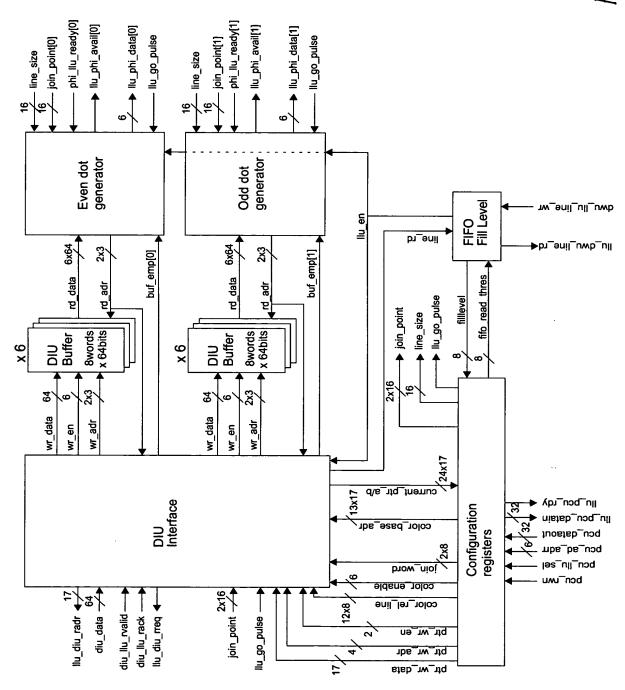


FIG. 272



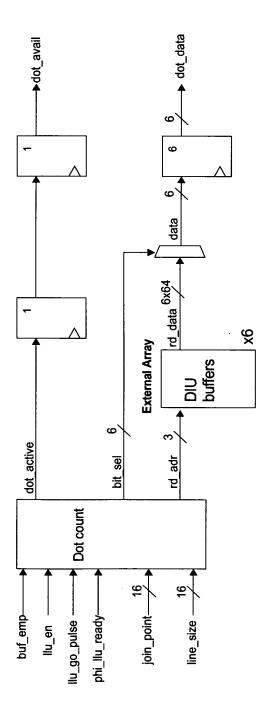
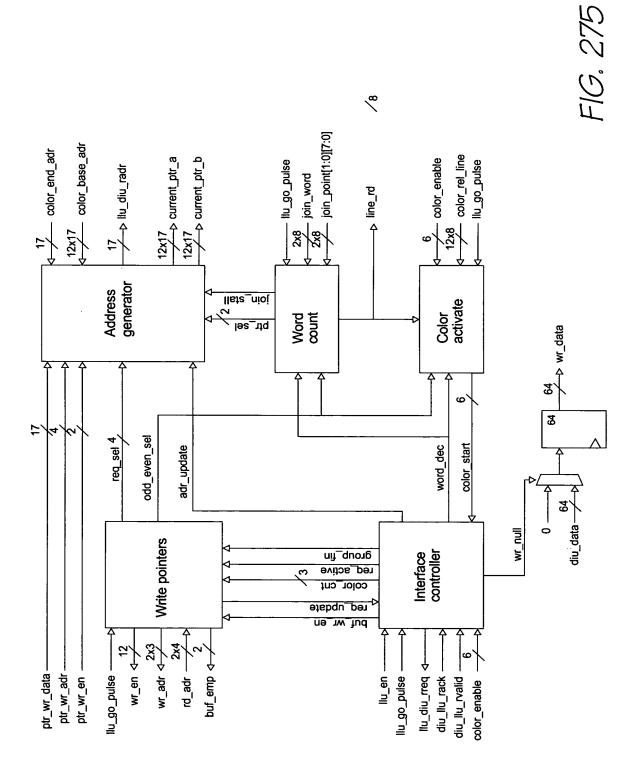
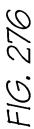
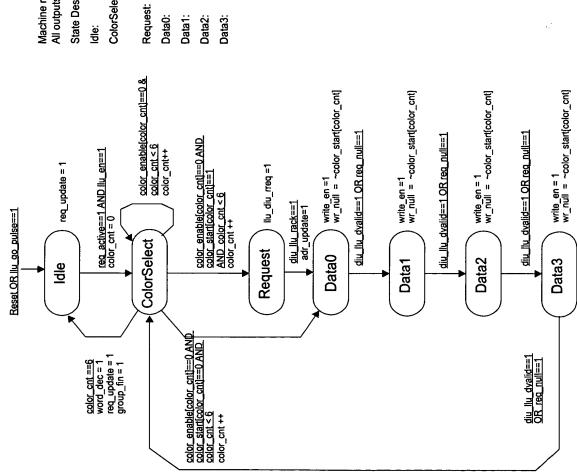


FIG. 274







All outputs are zero unless otherwise stated Machine remains in same state by default

State Description:

Idle state wait for active request

ColorSelect: Select the color to update before requesting to DIU

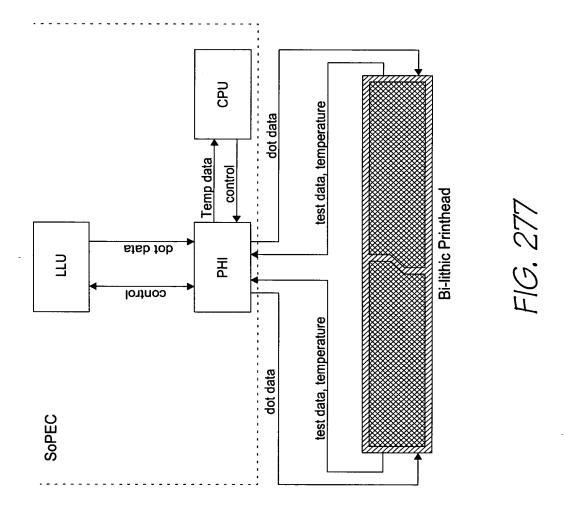
Request issued wait for acknowledge

Data word 0 transfer

Data word 1 transfer

Data word 2 transfer

Data word 3 transfer



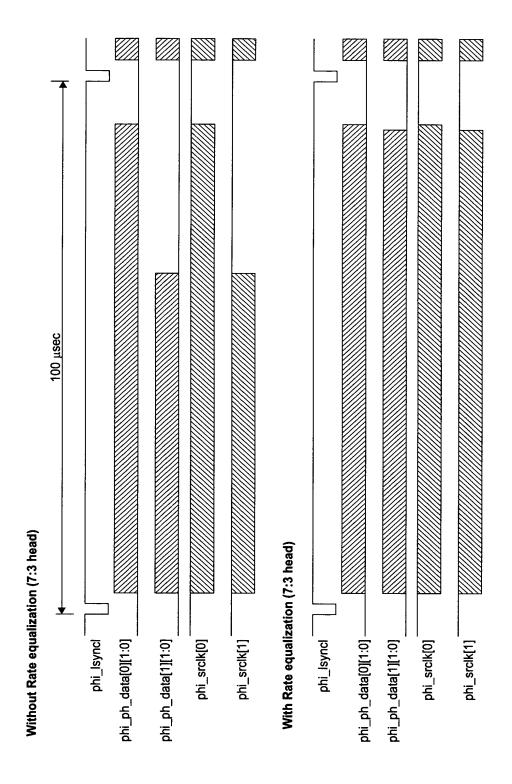
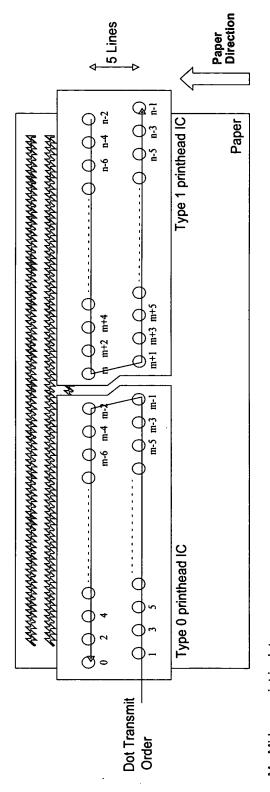


FIG. 279



M - Midway point in dots N - Number of dots in a line

Note: Paper passing under printhead

FIG. 280

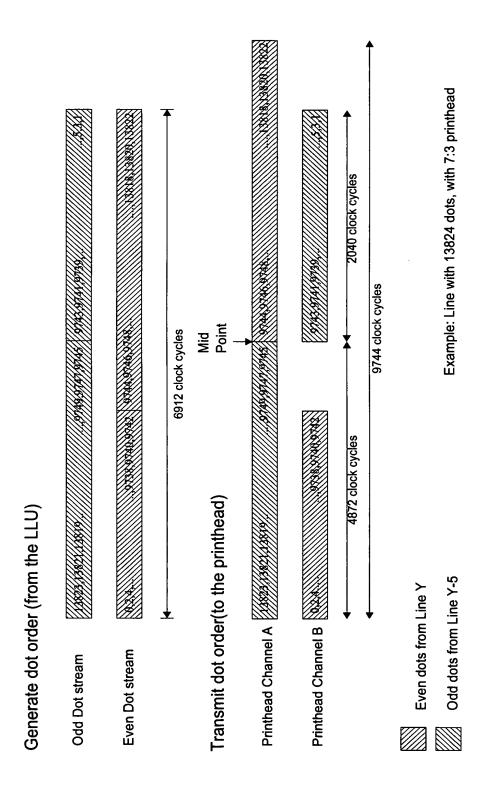


FIG. 281

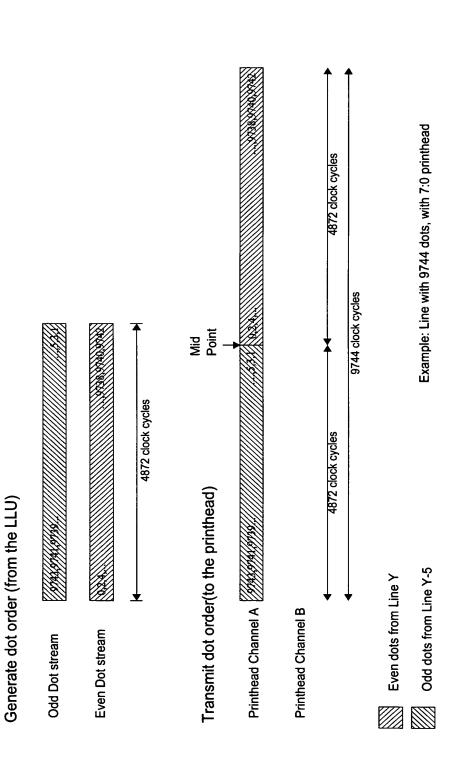
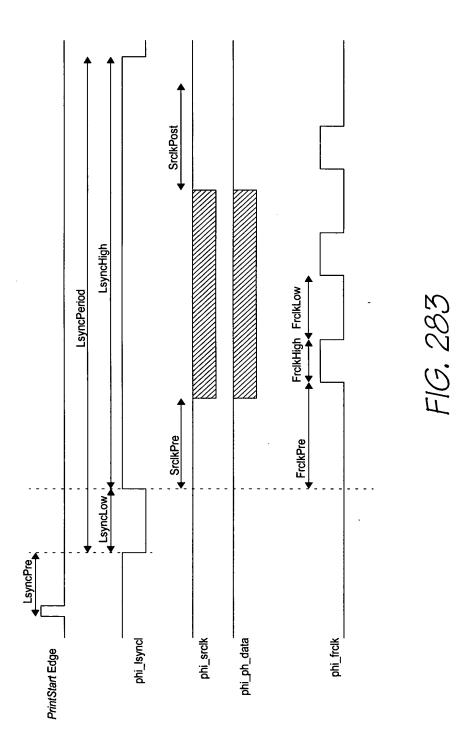
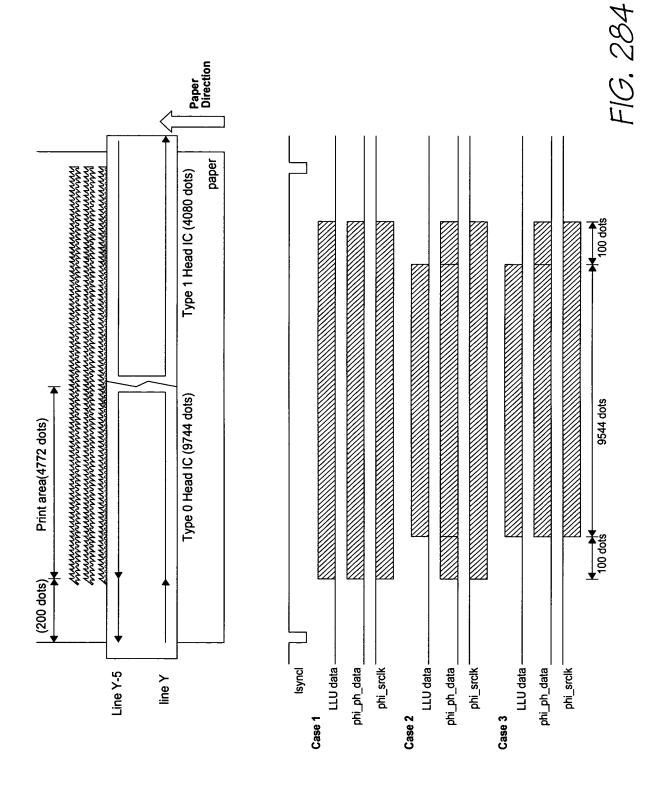


FIG. 282





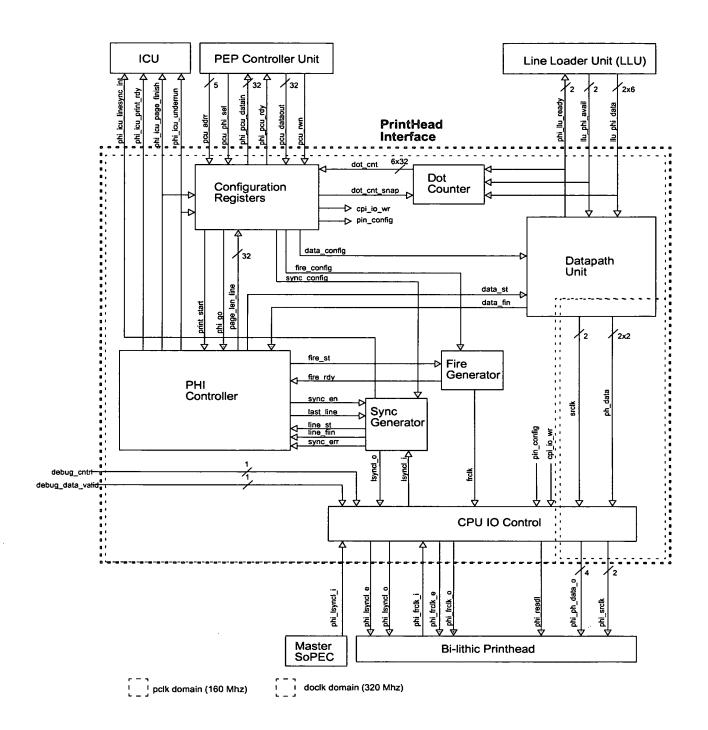
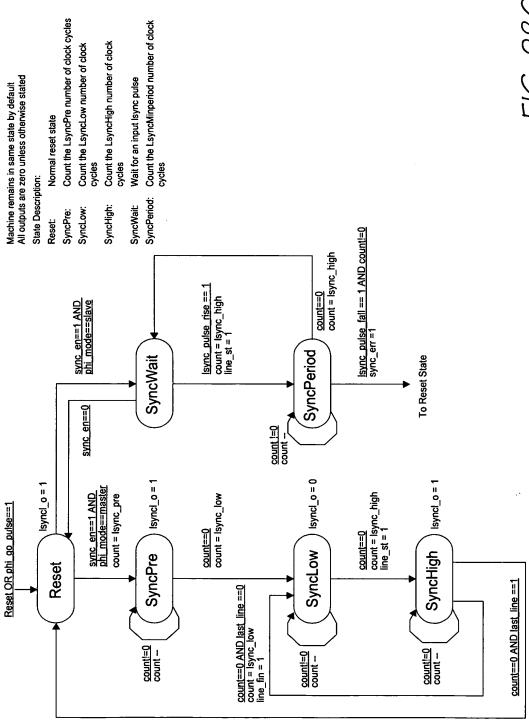
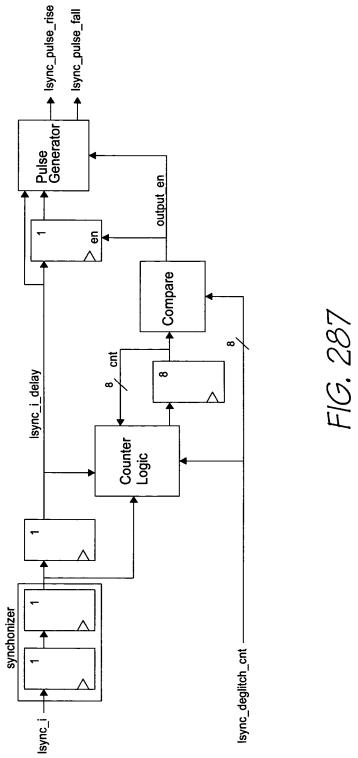
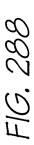


FIG. 285











State Description:

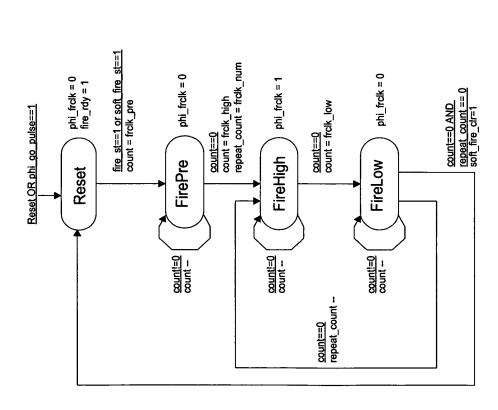
Normal reset state Reset:

Count the FrclkPre number of clock cycles, repeat count set to FrclkNum FirePre:

Count the FrckHigh number of clock cycles FireHigh:

Count the FrdkLow number of clock cycles

FireLow:



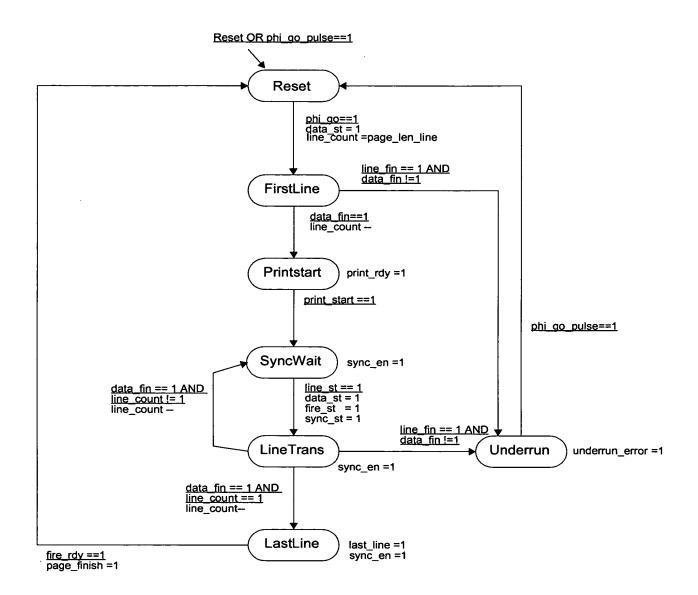


FIG. 289

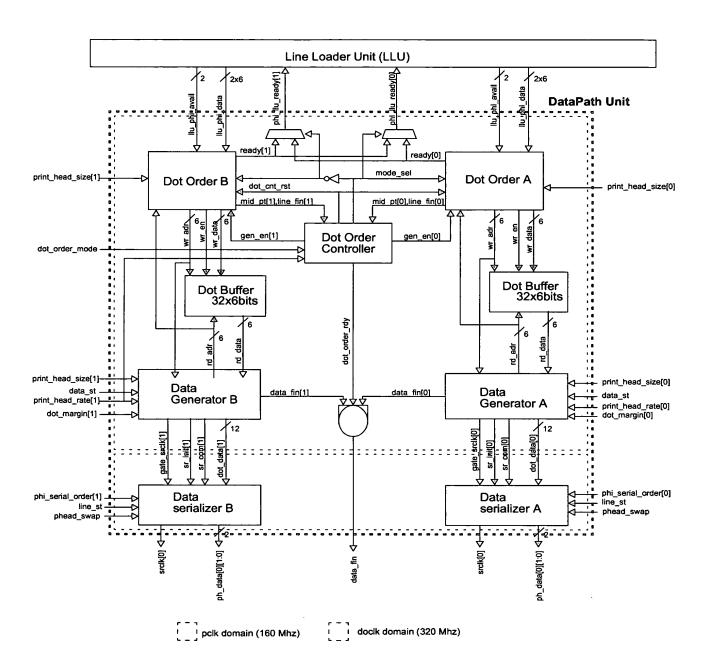
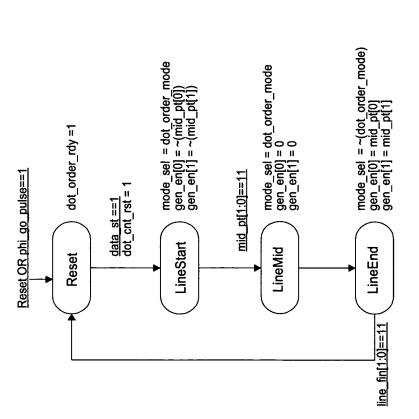


FIG. 290



Line end processing wait for both line\_fin to be

LineMid: LineEnd:

Start processing first part of the line, wait for both mid\_pt to be active
Switch over wait state allow pipeline to clear

Linestart:

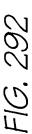
Normal reset state

Reset:

Machine remains in same state by default All outputs are zero unless otherwise stated

State Description:

FIG. 291





State Description:

Reset:

Normal reset state

Count the SrclkPre number of clock SrckPre:

cycles

DataGen1: Read Line Dot data from buffer

Read Line Dot data from buffer DataGen2:

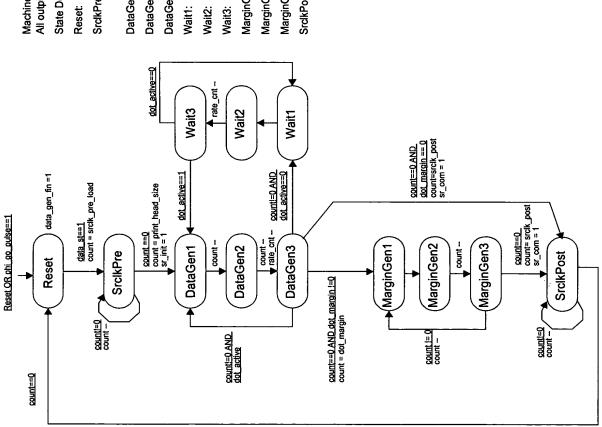
Data gen wait state DataGen3: Data rate control wait state Wait1:

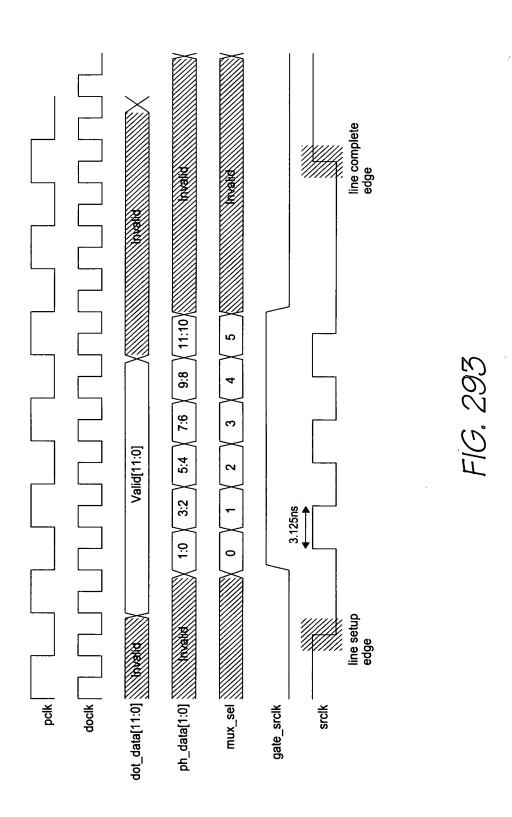
Data rate control wait state

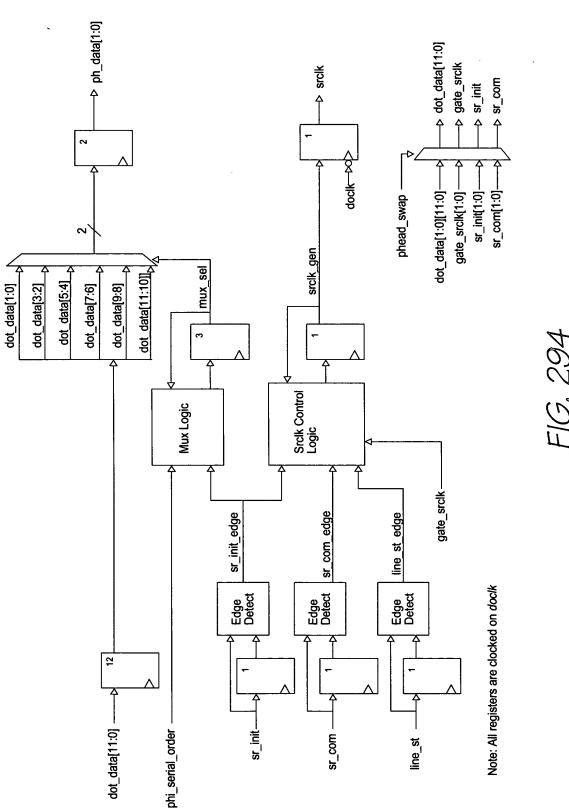
Data rate control wait state Wait3:

MarginGen1:Generate DotMargin number of dots MarginGen2:Generate DotMargin number of dots

SrdkPost: Wait for SrdkPost number of cycles MarginGen3:Generate margin wait state







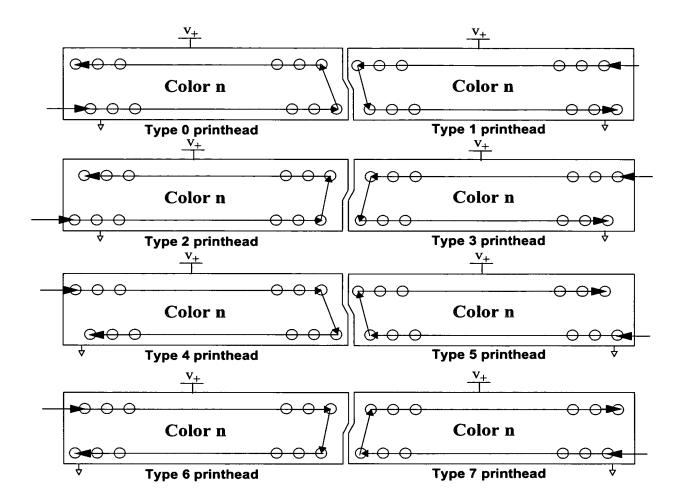


FIG. 295

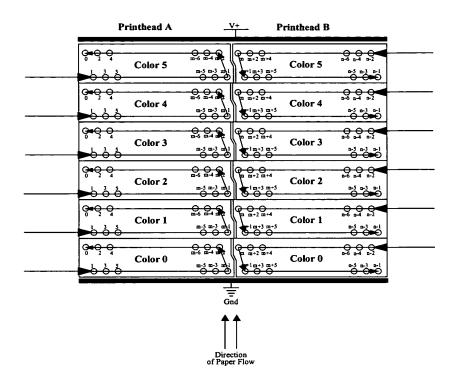


FIG. 296

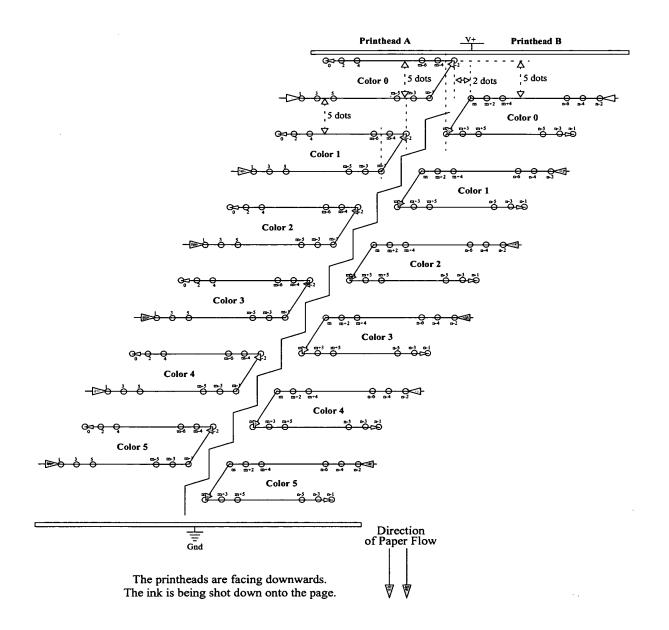
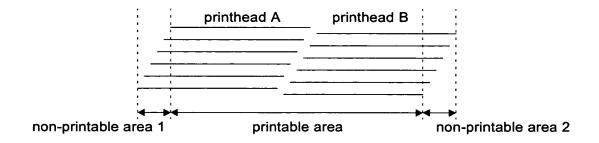
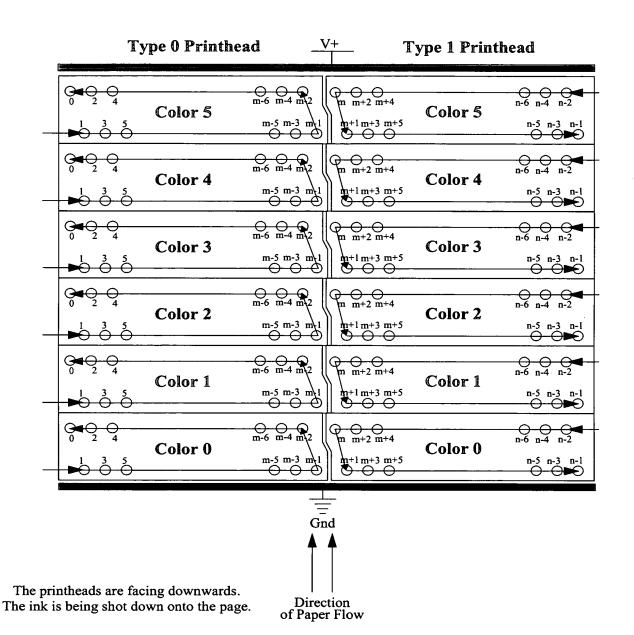


FIG. 297





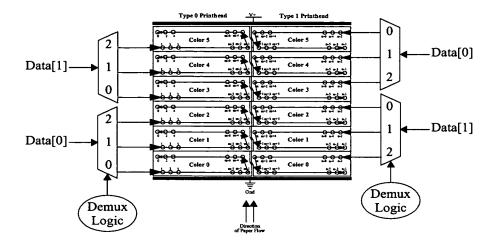


FIG. 300

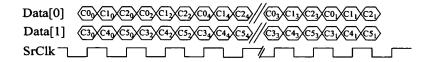


FIG. 301

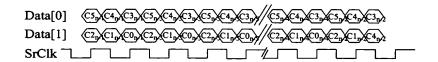


FIG. 302

The printheads are facing downwards. The ink is being shot down onto the page.



Type 0 Printhead Type 1 Printhead ⊕ ⊕ ⊕ m+5 m+3 m+1 m-1 m-3 m-5 Color 0 Color 0 n-2 n-4 n-6 m/2 m-4 m-6 m+4 m+2 0 0 0 n-1 n-3 n-5 m+5 m+3 m 1 Color 1 Color 1 m-2 m-4 m-6 m+4 m+2 h m+5 m+3 mF(1 Q → O m<sub>i-1</sub> m-3 m-5 Color 2 Color 2 m\2 m-4 m-6 0 0 0 m+5 m+3 m(1 m-1 m-3 m-5 Color 3 Color 3 m-2 m-4 m-6 0-1 n-3 n-5 m+5 m+3 m+1 Color 4 Color 4 n-2 n-4 n-6 <u>9 9 9</u> Q → O m₁-1 m-3 m-5 m+5 m+3 m=0 Color 5 Color 5 m\2 m-4 m-6 m+4 m+2 = Gnd

FIG. 303

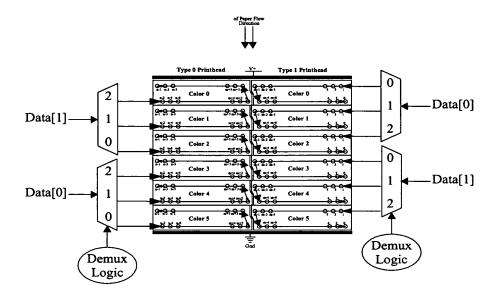


FIG. 304

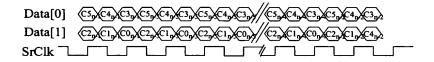


FIG. 305

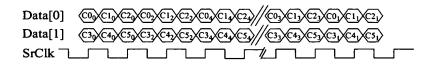


FIG. 306

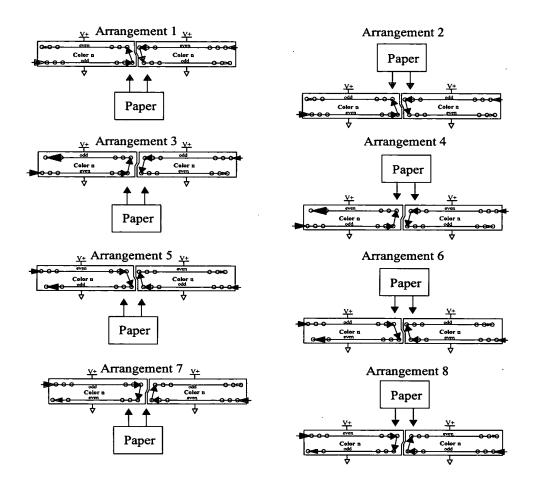


FIG. 307

FIG. 308

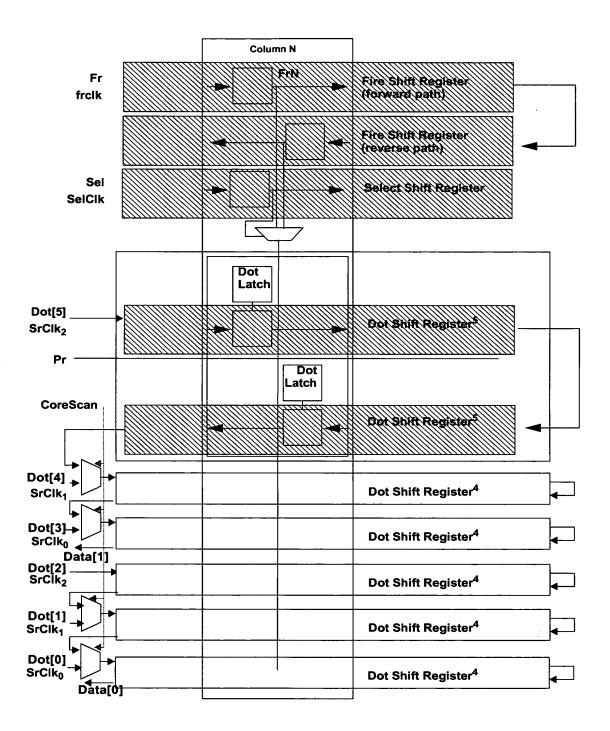


FIG. 309

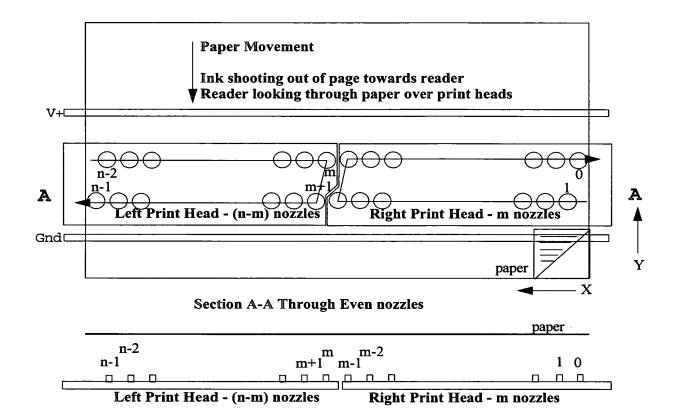


FIG. 310

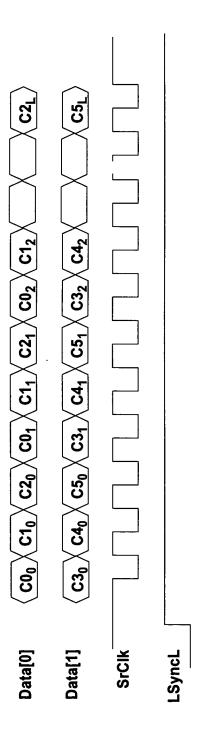


FIG. 311

the fire select shift register	the fire select shift register	n one's in the fire select shift registers
a) Printing every $n^{\mathrm{th}}$ dot with all zero's in the fire select shift register	b) Printing every n <sup>th</sup> dot with all one's in the fire select shift register	c) Printing every $n^{th}$ dot with $n$ zero's then $n$ one's in the fire select shift registers

select shift reg	000000000001111111111110000000
<b>→</b> register	00000000001000000000010000000001000000
fire shift	100000000001000000000010000000001000000

0001000000000	0010000000001	111111111100000000001111111111000000	re/Select SR				
000100000	1000000000100	111111111100000	Right Print Head Fire/Select SR				
L							
000	001	111	ot SR				
0001000000.	.00000000000.	0001111111111	Head Fire/Select SR				
	0000	00000	Left Print H				
.00010000	.001000	.11100	Left				
100000000010000000001000000.	000000000100000000010000000.	000000000011111111110000000.	Left				

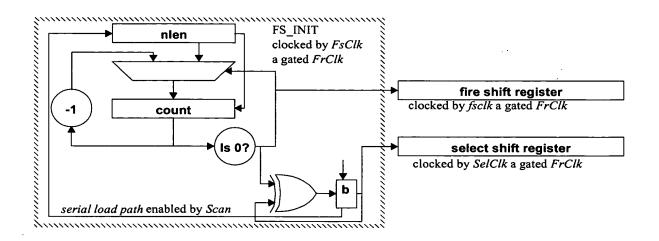


FIG. 315

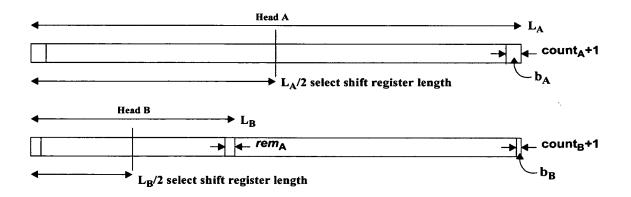


FIG. 316

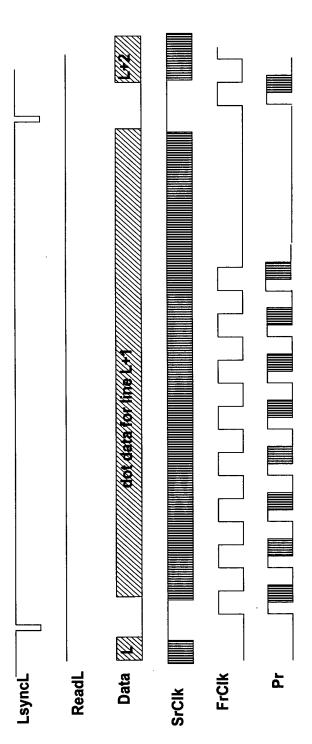


FIG. 317

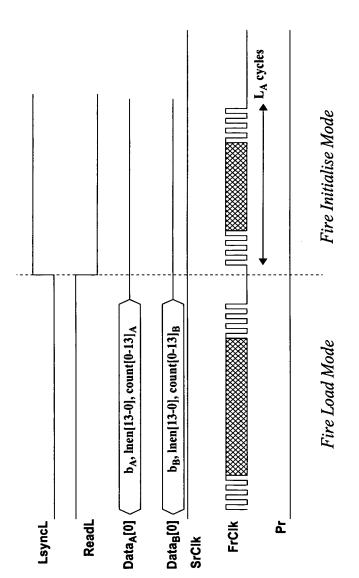
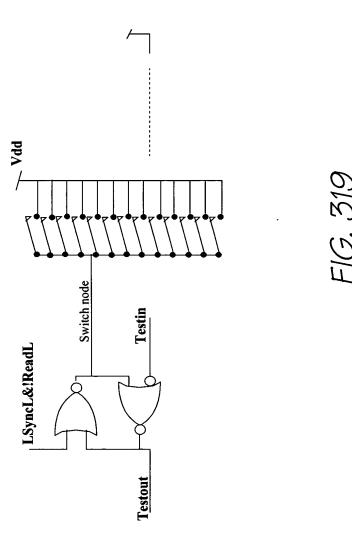


FIG. 318



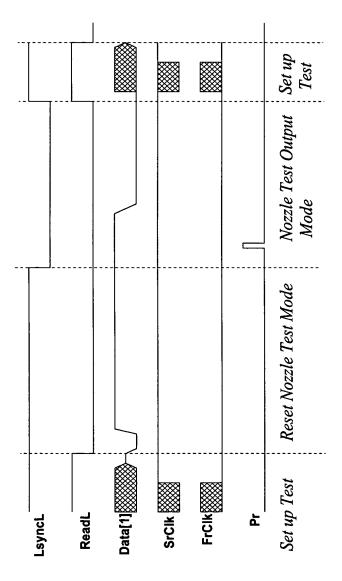


FIG. 320

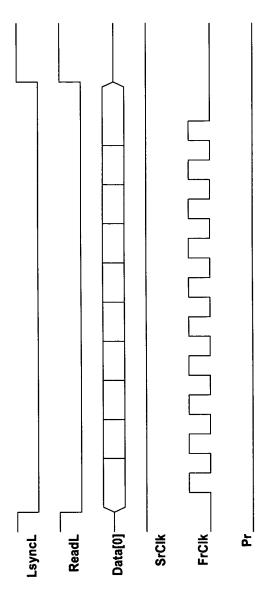


FIG. 321

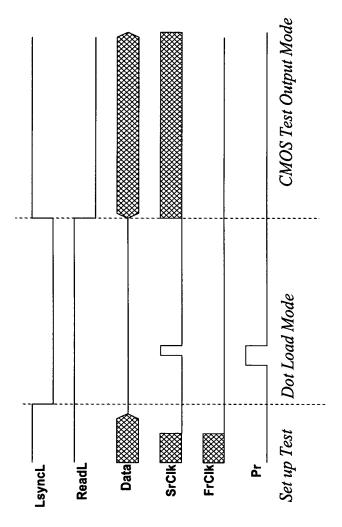


FIG. 322

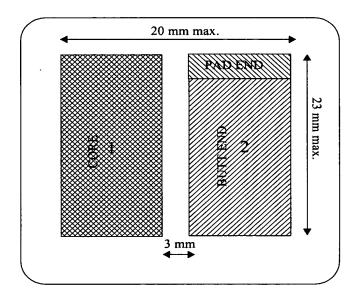


FIG. 323

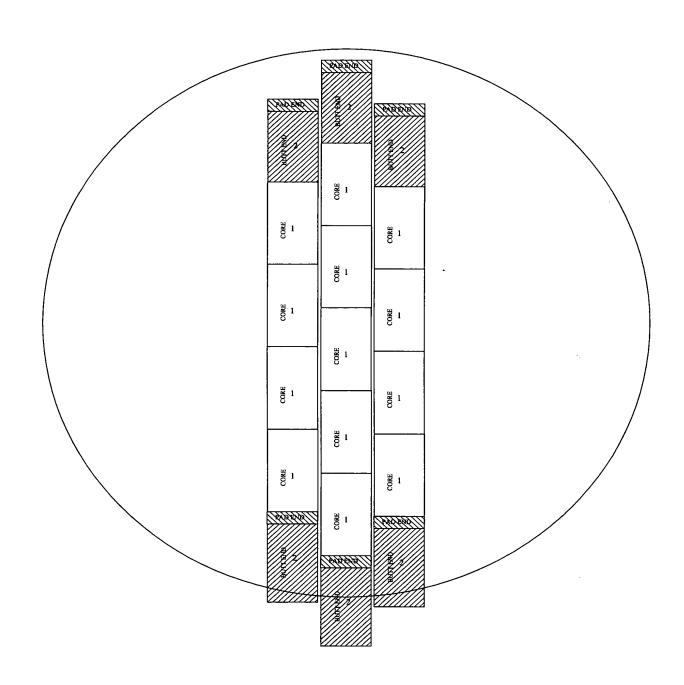
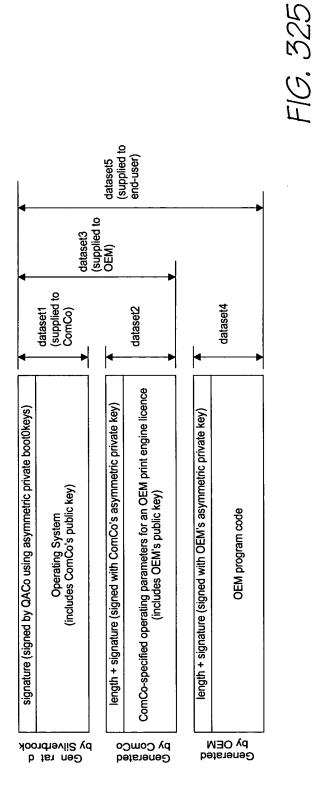
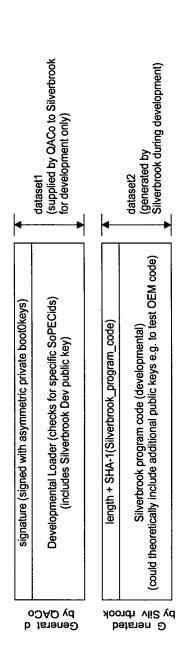


FIG. 324





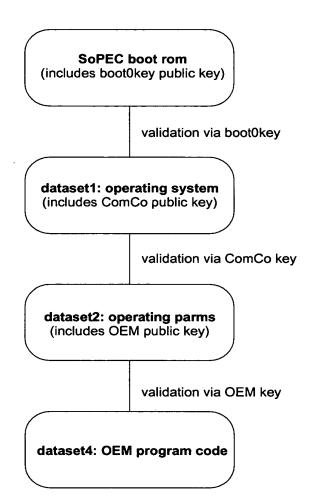


FIG. 326

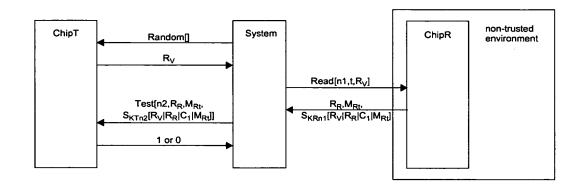


FIG. 328

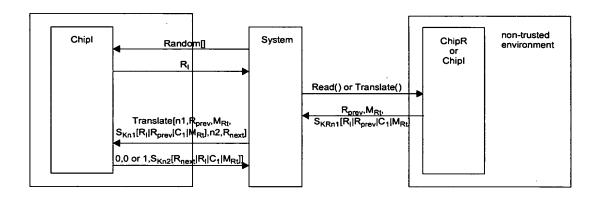


FIG. 329

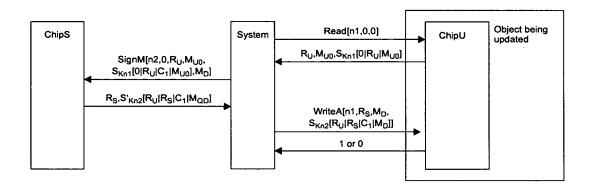


FIG. 330

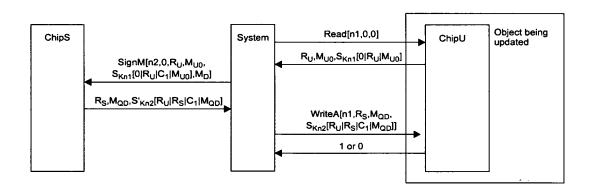


FIG. 331

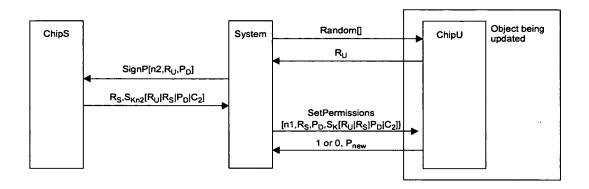


FIG. 332

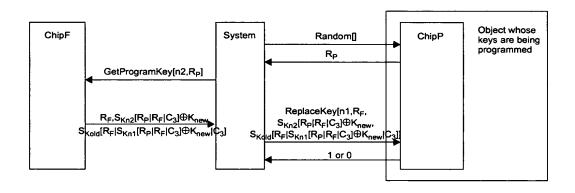


FIG. 333

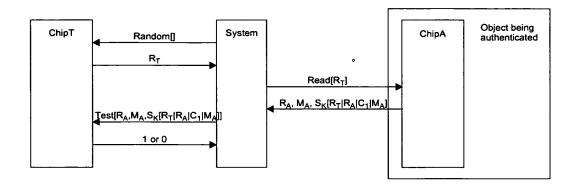


FIG. 334

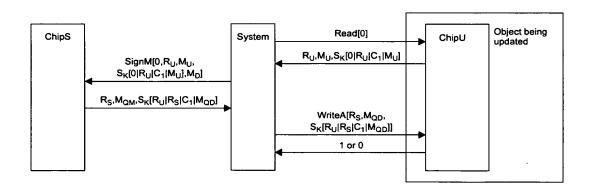


FIG. 335

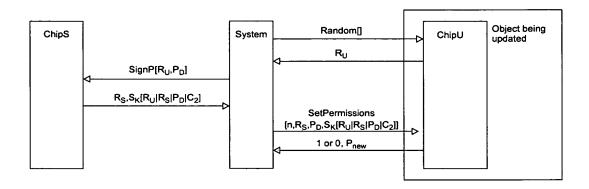


FIG. 336

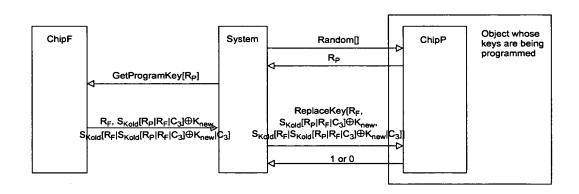


FIG. 337

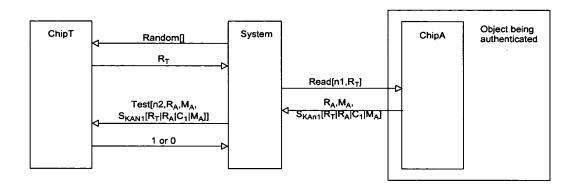


FIG. 338

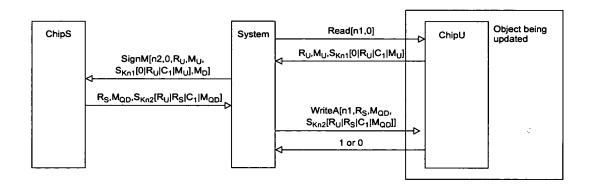


FIG. 339

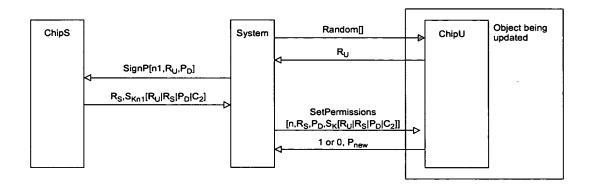


FIG. 340

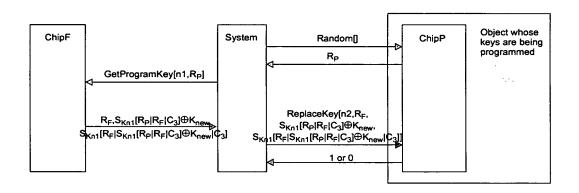


FIG. 341

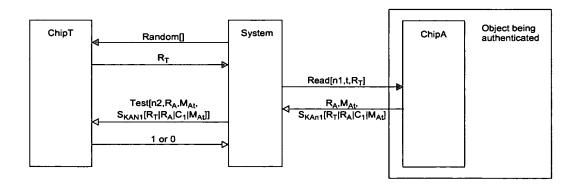


FIG. 342

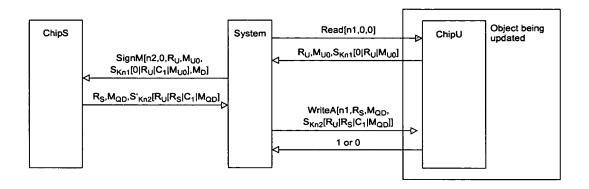


FIG. 343

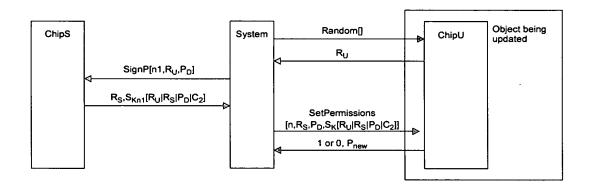


FIG. 344

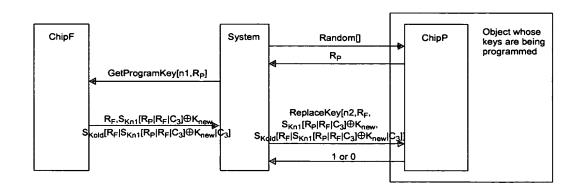


FIG. 345

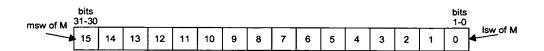


FIG. 346

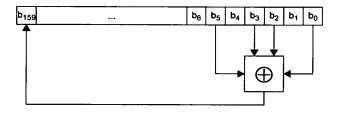


FIG. 347

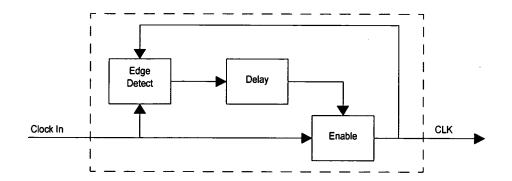


FIG. 348

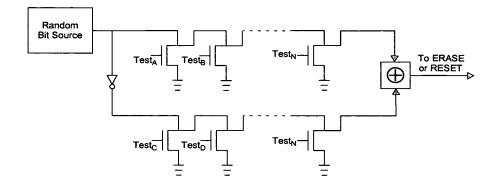


FIG. 349

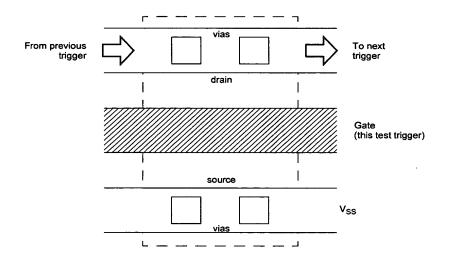


FIG. 350

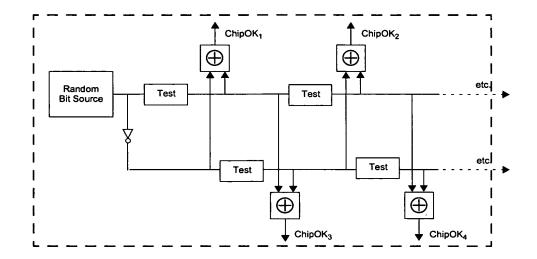


FIG. 351

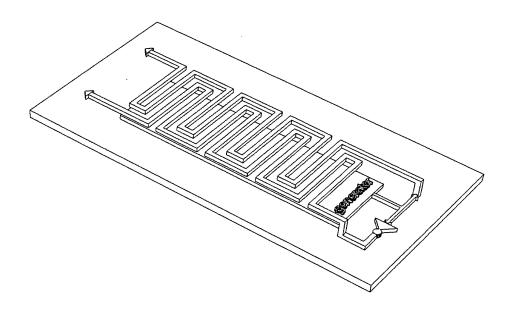


FIG. 352

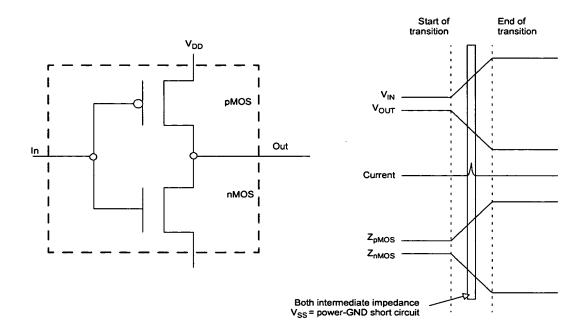


FIG. 353

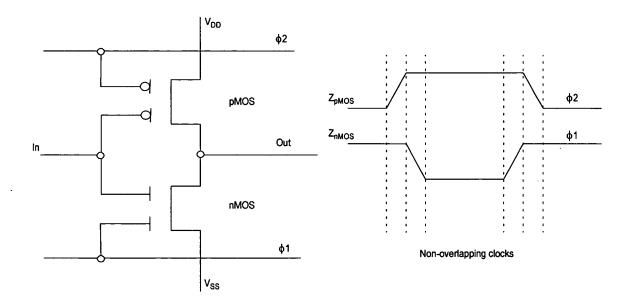


FIG. 354

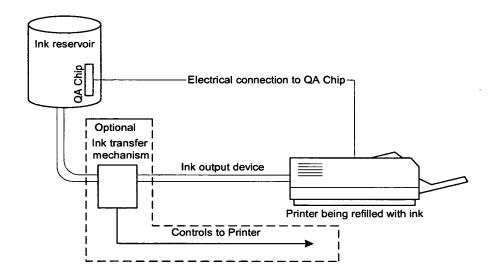


FIG. 355

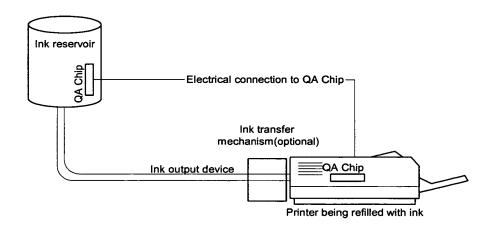


FIG. 356

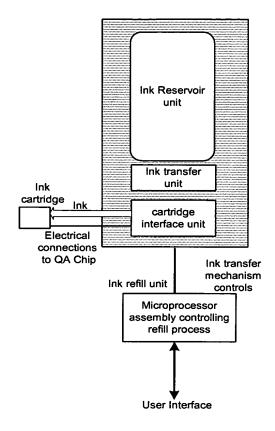


FIG. 357

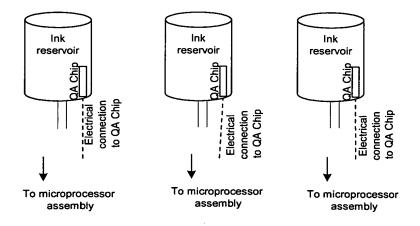


FIG. 358

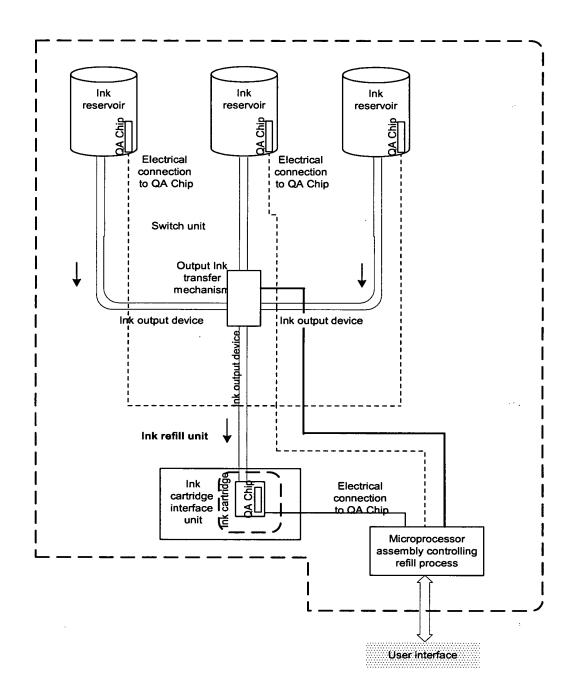


FIG. 359

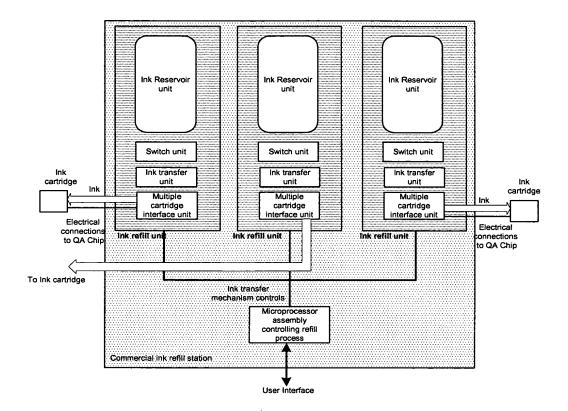


FIG. 360

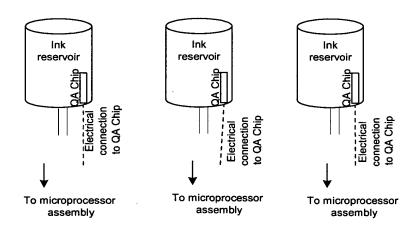


FIG. 361

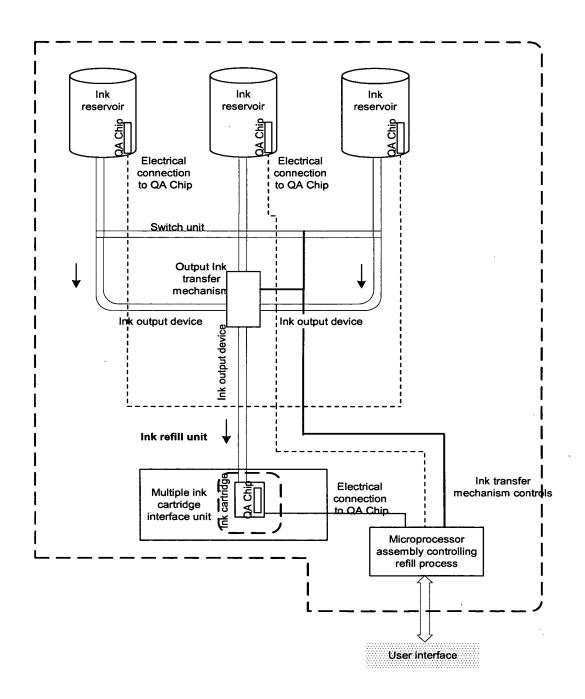


FIG. 362

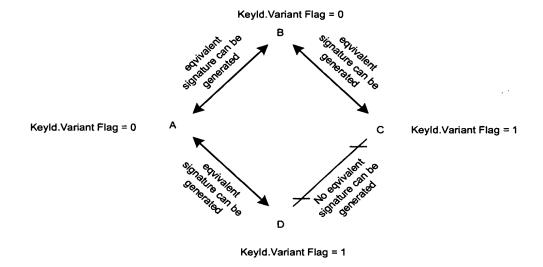


FIG. 363

31 17	16 4	3 0
Type	Permissions	Size and Position
(15 bits)	(13 bits)	(4 bits)

FIG. 364

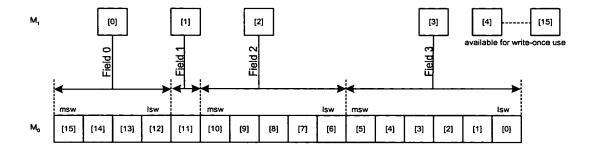


FIG. 365

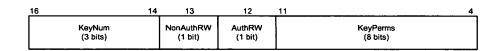


FIG. 366

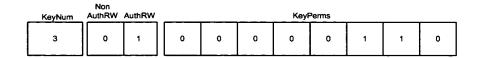


FIG. 367

KeyNum	Non AuthRW	AuthRW		KeyPerms						
3	1	1	0	0	0	0	1	1	1	0

FIG. 368

31	17	16 14	13	12	11	4	3 0	
	Type (15 bits)	KeyNum (3 bits)	NonAuth RW (1 bit)	AuthRW (1 bit)		Perms bits)	EndPos (4 bits)	

FIG. 369

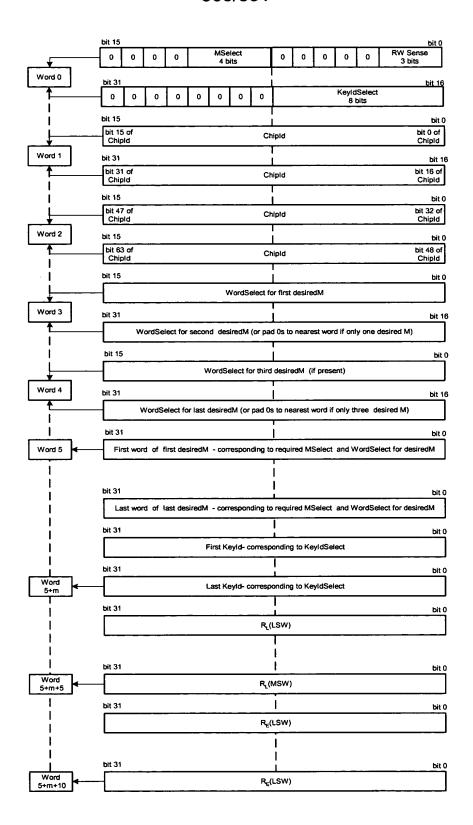


FIG. 370

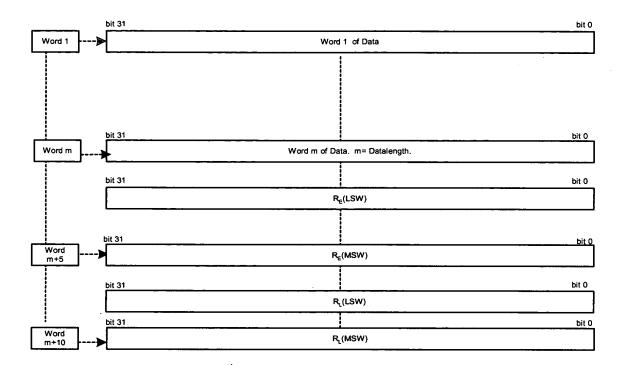


FIG. 371

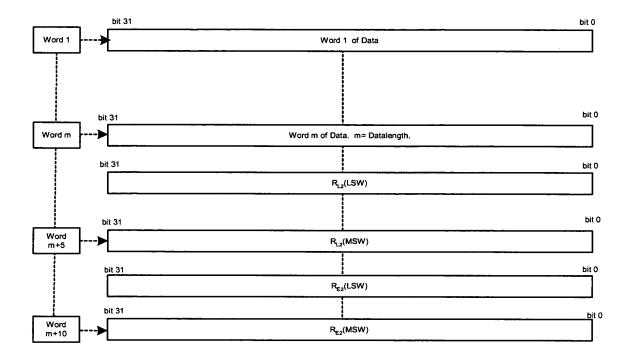


FIG. 372

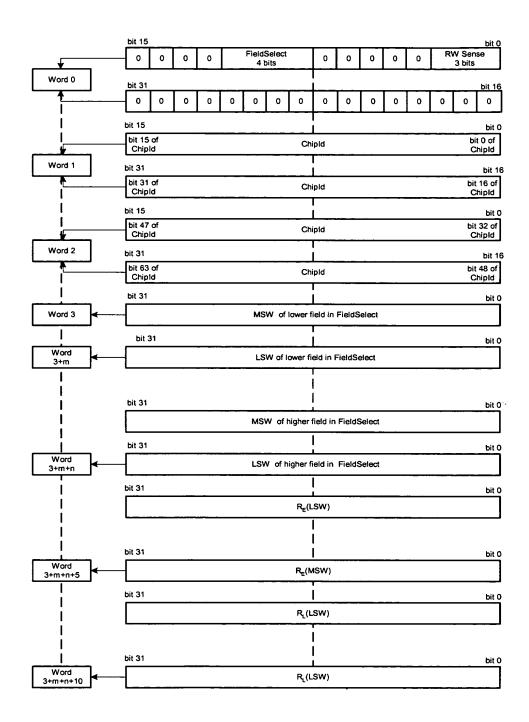


FIG. 373

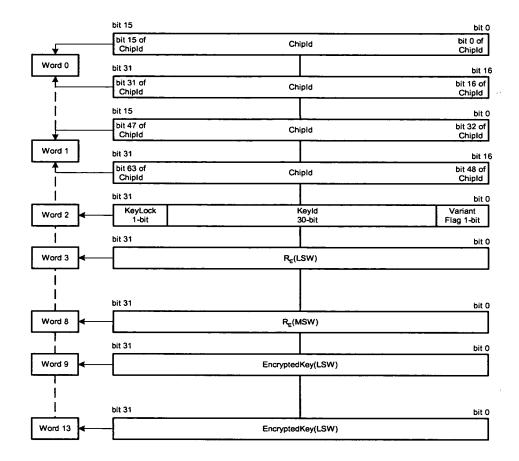


FIG. 374

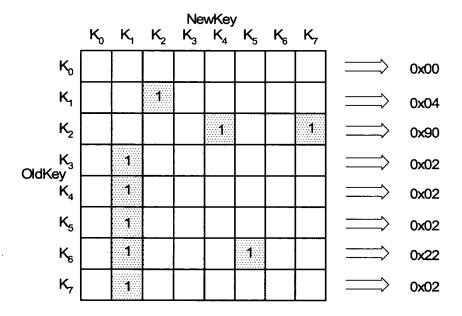


FIG. 375

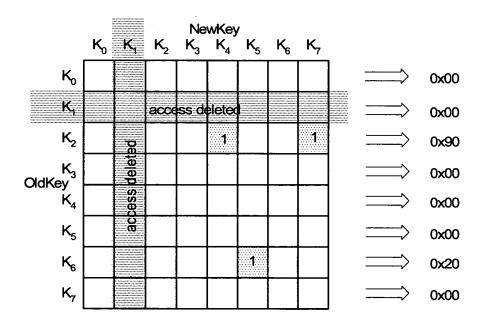


FIG. 376

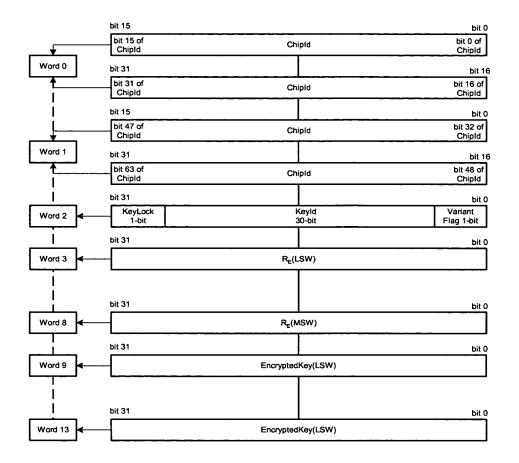


FIG. 377

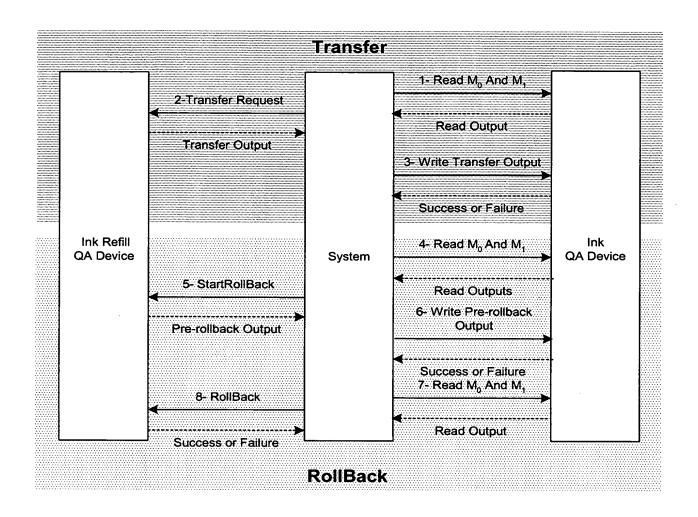


FIG. 378

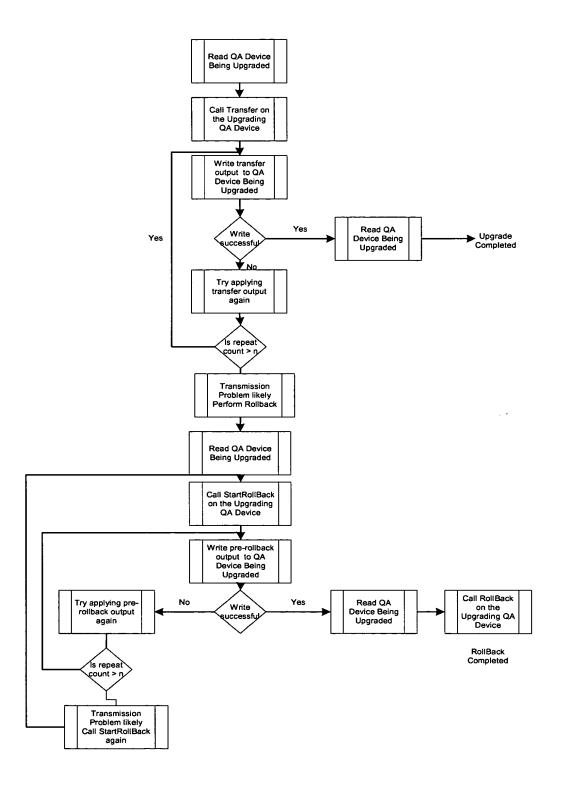


FIG. 379

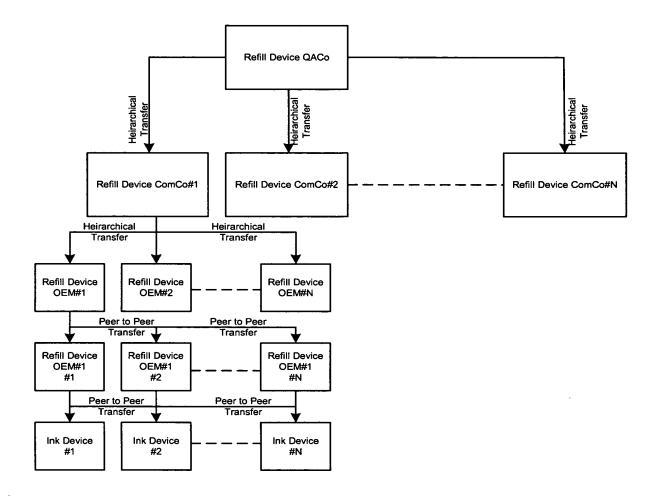


FIG. 380

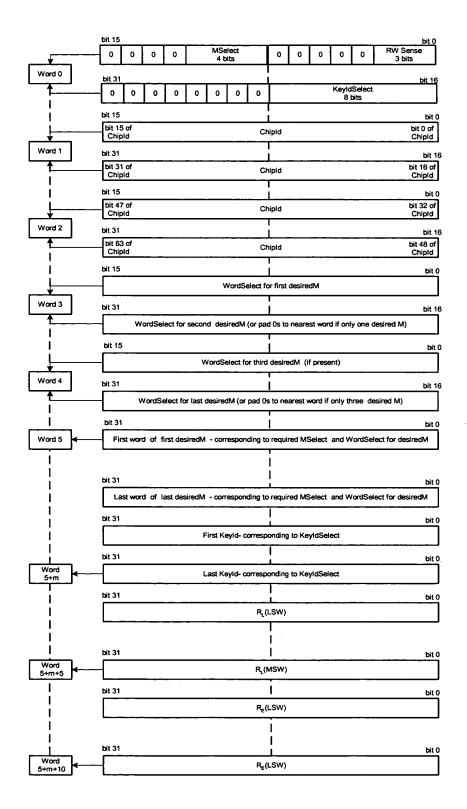


FIG. 381

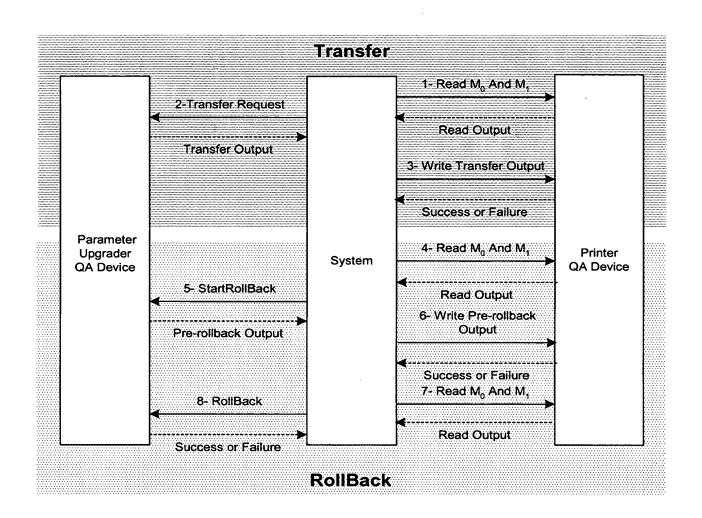


FIG. 382

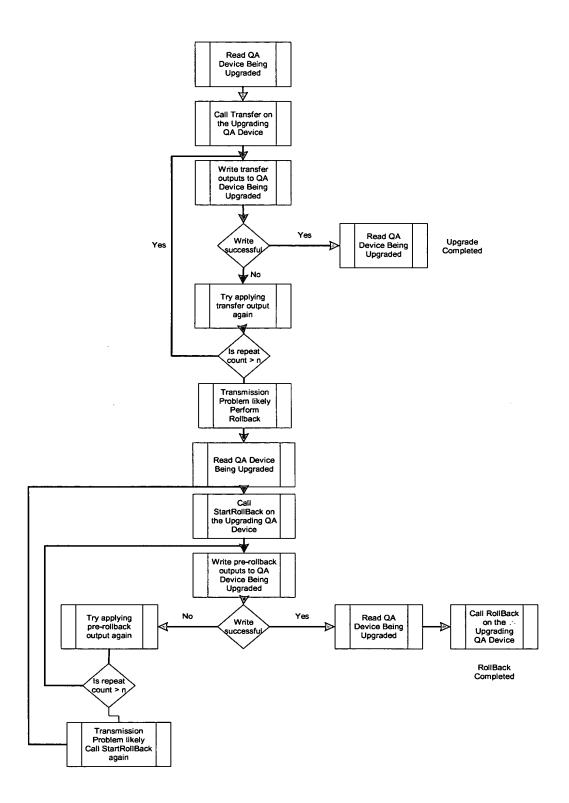


FIG. 383

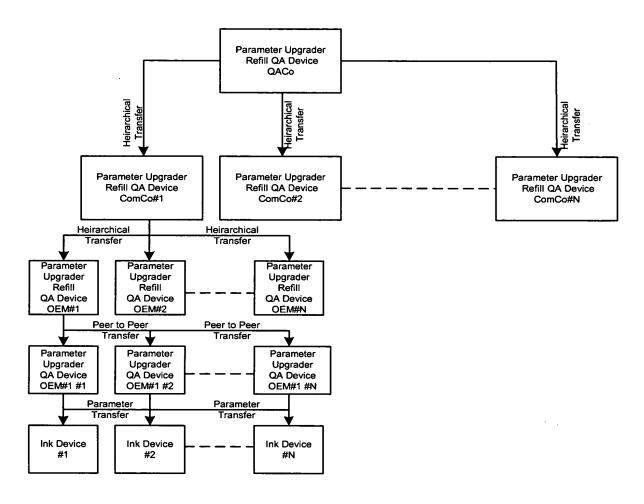


FIG. 384

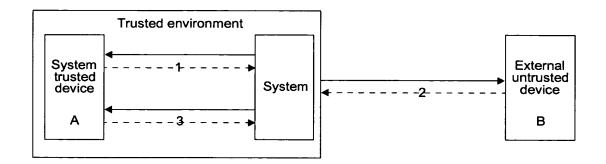


FIG. 385

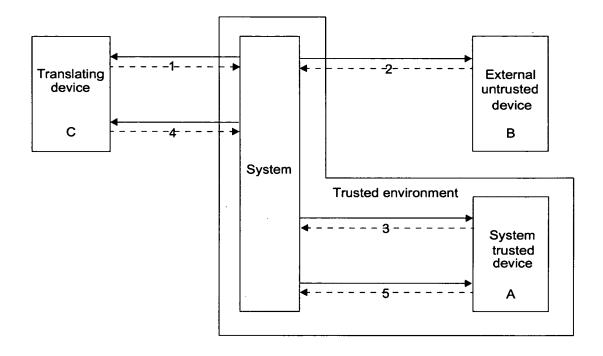


FIG. 386

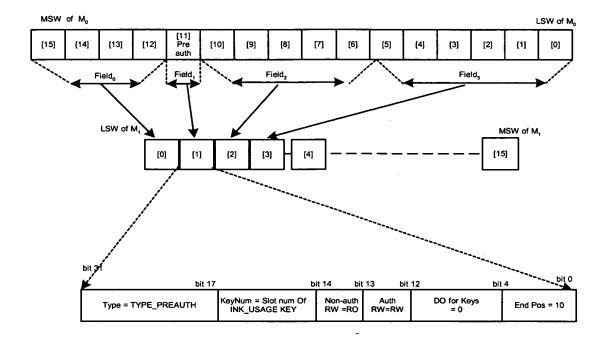


FIG. 387

_bit 31	bi	t 0
preauth field select	preauth amount	1
= 8 bits	= 24 bits	٠.

FIG. 388

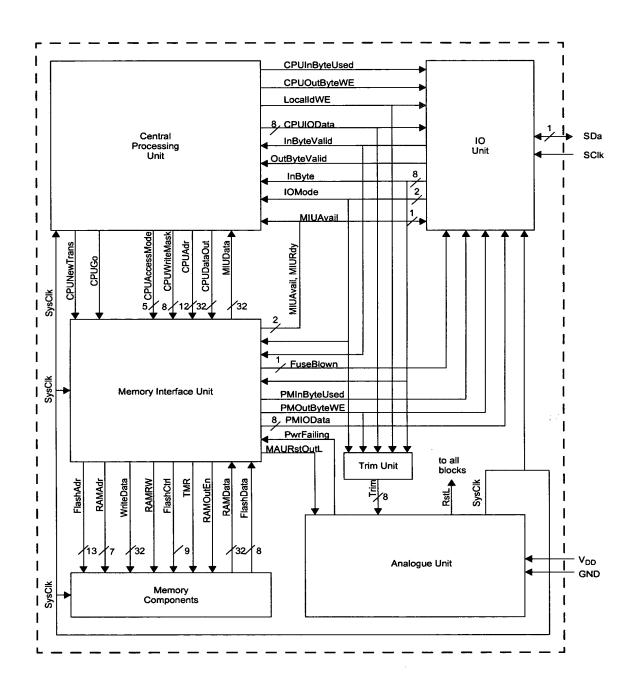


FIG. 389

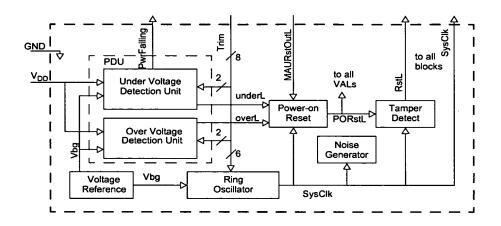


FIG. 390

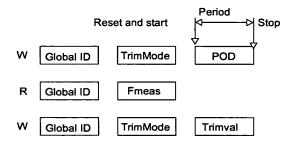


FIG. 391

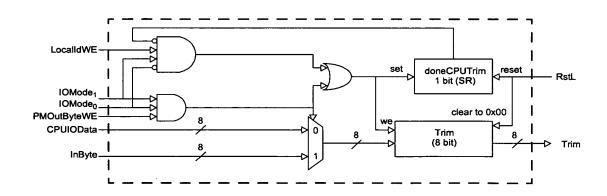


FIG. 392

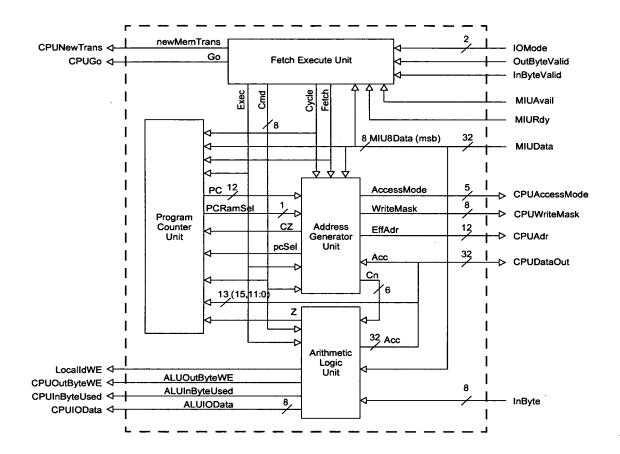


FIG. 393

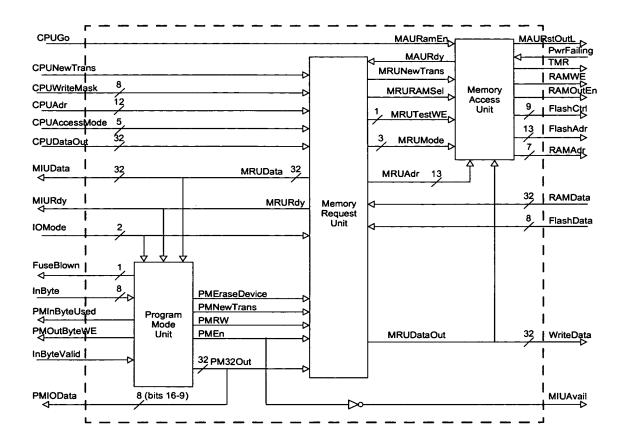


FIG. 394

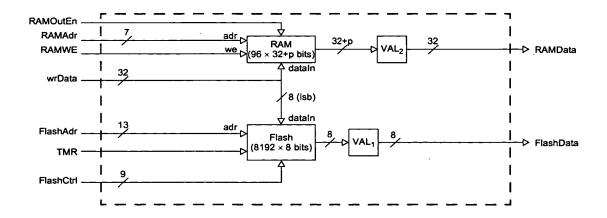


FIG. 395

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
PriID6	PriID5	PrilD4	PriID3	PriID2	PrilD1	PriID0	R/*W 0 = write 1 = read

FIG. 396

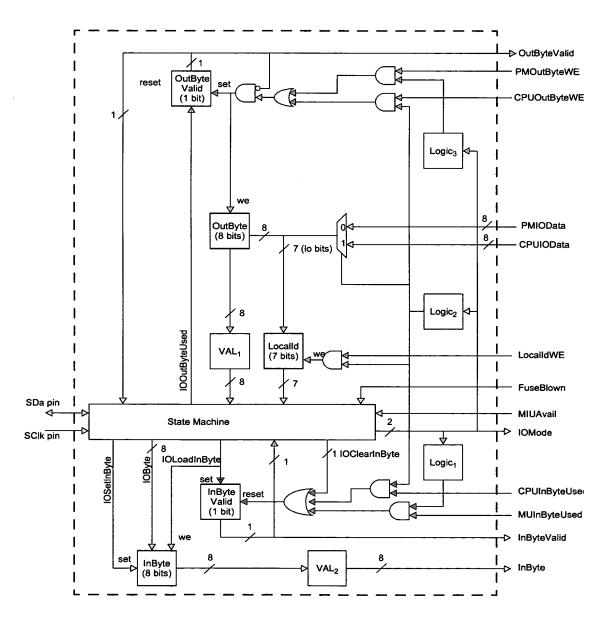


FIG. 397

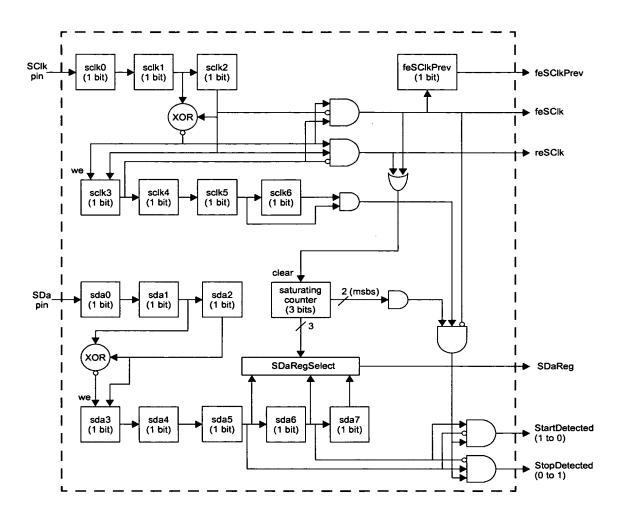


FIG. 398

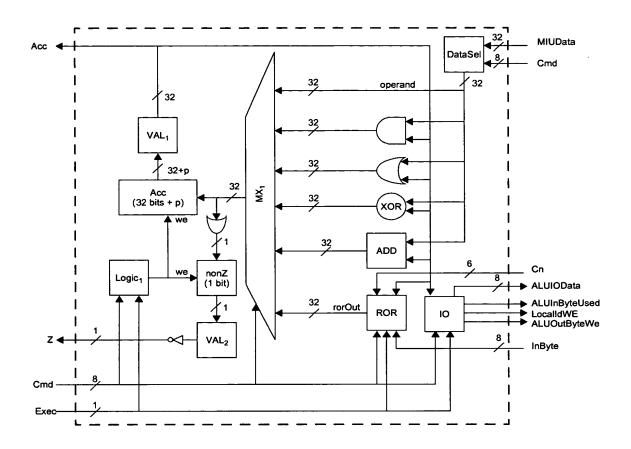


FIG. 399

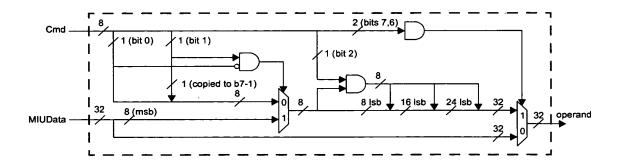


FIG. 400

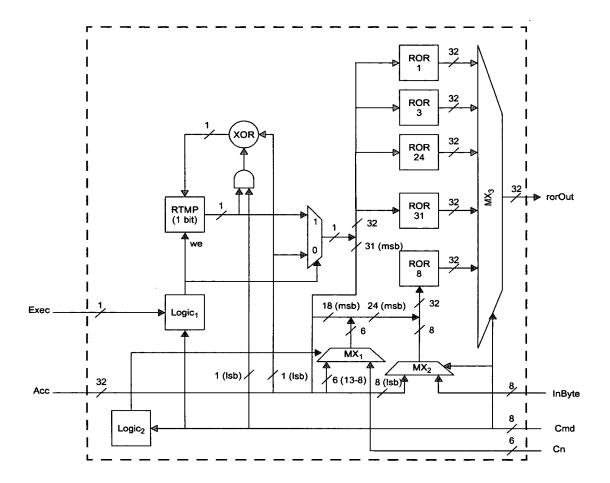


FIG. 401

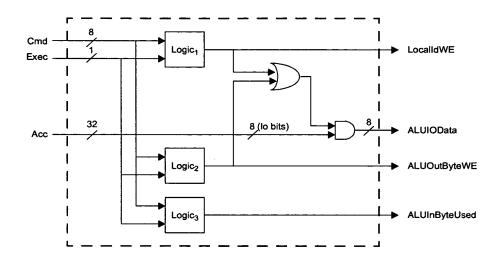


FIG. 402

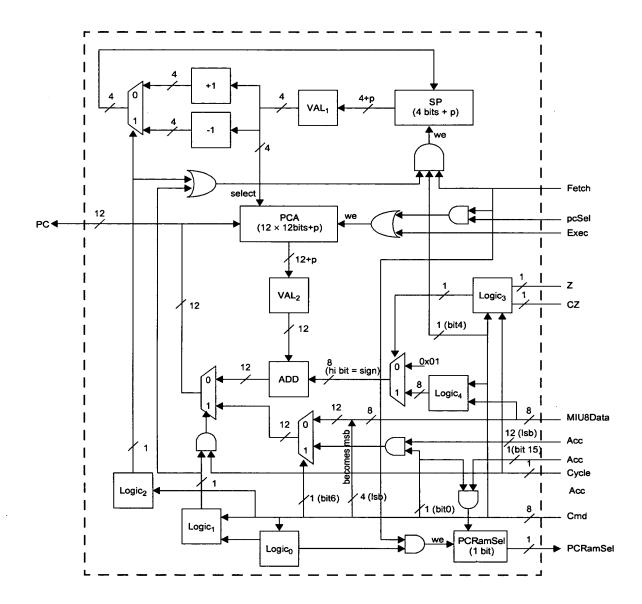


FIG. 403

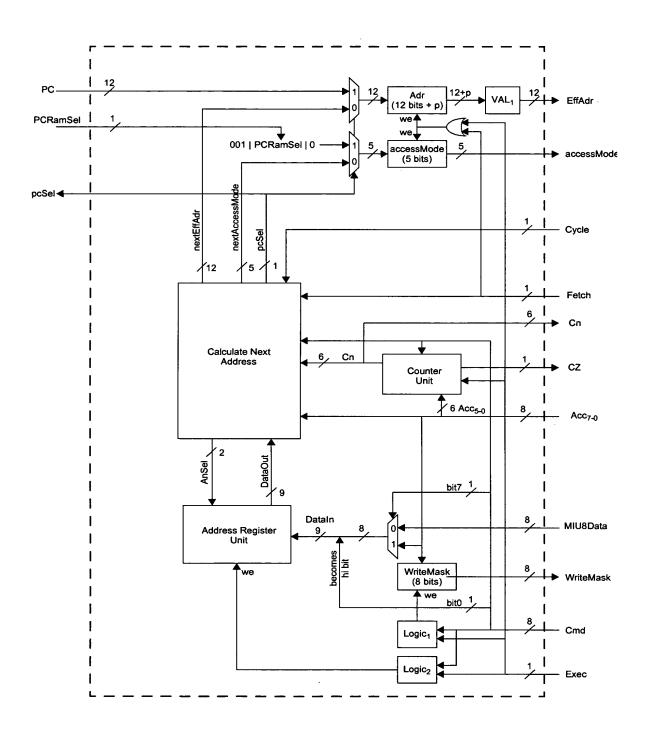


FIG. 404

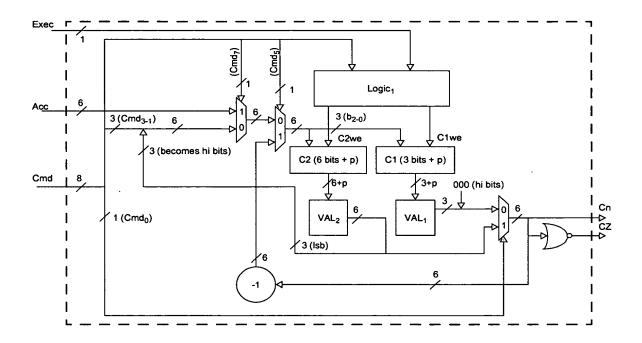


FIG. 405

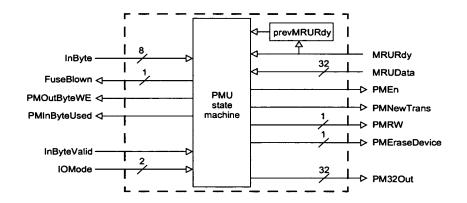


FIG. 406

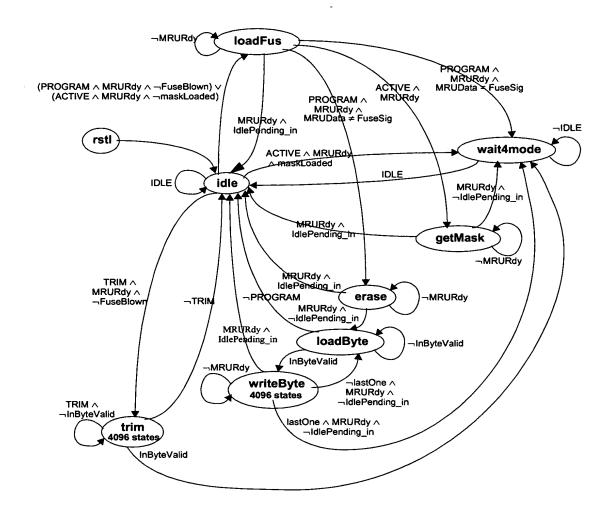


FIG. 407

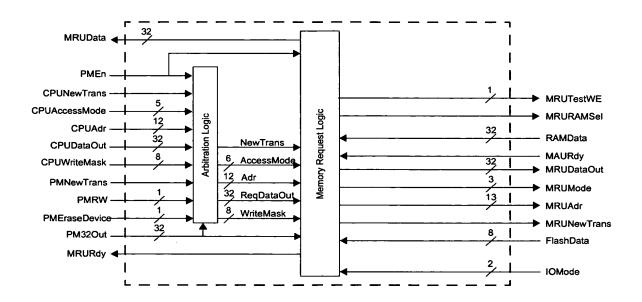


FIG. 408

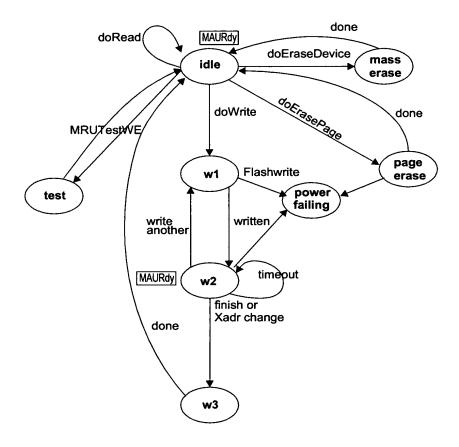


FIG. 409

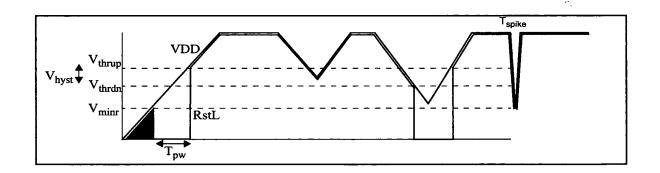


FIG. 410

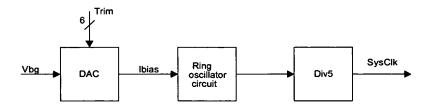


FIG. 411

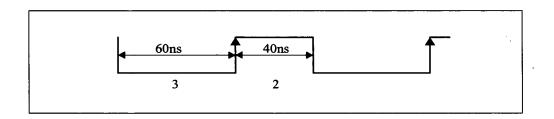


FIG. 412

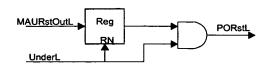


FIG. 413